Illinois Tool Works Inc. Corporate Headquarters 3600 West Lake Avenue Glenview, IL 60025-5811 Telephone 847.724.7500





January 2, 2003

Carlton D. Cuffman U.S. Environmental Protection Agency Remedial Enforcement Support Section 77 W. Jackson, SR-6J Chicago, IL 60604-3590

Re: Norwood Marking Systems
2538 Wisconsin Avenue, Downers Grove, IL
Response to CERCLA Section 104(e) Request for Ellsworth Industrial Park Site

Dear Mr. Cuffman:

Please find the enclosed response to the CERCLA Section 104(e) request regarding the Ellsworth Industrial Park Site. The response was prepared in conjunction with Norwood Marking Systems, a division of Illinois Tool Works Inc. (ITW).

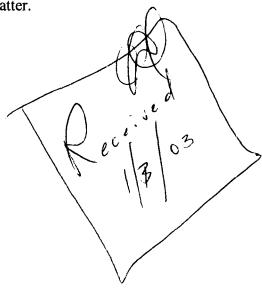
You may contact me for any questions or discussion at (847) 657-4843 or kbrown@itw.com.

Thank you for your consideration in this matter.

Sincerely,

Ken Brown, CHMM Environmental Engineer

Enclosure



Certification for **Ellsworth Industrial Park Site CERCLA Section 104(e) Response** on behalf of **Norwood Marking Systems** 2538 Wisconsin Avenue **Downers Grove, IL**

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Ken Brown

Environmental Engineer

Illinois Tool Works Inc.

NOTE: Norwood Marking Systems is a division of Illinois Tool Works Inc.

Subscribed and sworn to before a Notary Public in and for the State of Illinois, this 2nd day of January 2003.

"OFFICIAL SEAL" VALERIE J. KUSTER Notary Public, State of Illinois

My Commission Expires 06/26/04

ELLSWORTH INDUSTRIAL PARK SITE

CERCLA Section 104(e) Response

for

Norwood Marking Systems 2538 Wisconsin Avenue Downers Grove, IL January 2, 2003 Submission

1. Persons consulted in preparation of answers.

Dennis Bourk

Production Supervisor and Safety Director, Norwood Marking Systems

Robert Hitchcock

Operations Manager, Norwood Marking Systems

Elaine LaBuda

Administrative Assistant - Manufacturing, Norwood Marking Systems

Larry Kollins

Former Plant Manager, Norwood Marking Systems

NOTE: Years of employ

Years of employment at Norwood Marking Systems for the persons listed

above are approximately as follows:

Dennis Bourk

1974 to present

Robert Hitchcock Elaine LaBuda 1997 to present 1996 to present

Larry Kollins

1971 to 1997

Britt Wenzel

Manager - Environmental Compliance Management, Mostardi Platt

Claude Mays III

Senior Project Manager, Mostardi Platt

NOTE:

Mostardi Platt has provided environmental consulting services to Norwood

Marking since the early 1990s.

Ken Brown

Corporate Environmental Engineer, Illinois Tool Works Inc. (ITW)

NOTE:

Norwood Marking Systems is a division of ITW.

2. Documents consulted, examined or referred to.

Environmental compliance management plans Environmental permits Material safety data sheets (MSDSs) Sanitary district reports Supplier lists

Waste analyses, manifests and reports

NOTE:

Copies of reference documents that are not included as Exhibits to

specific question responses are included as Exhibit I.

3. Other persons able to provide a more detailed or complete response.

None known.

4. Hazardous materials information.

A hazardous materials list is included as Exhibit A to this response. There is no indication that either of the contaminants of concern (PCE or TCE) has ever been used at the facility.

a. chemical composition, characteristics & physical state

MSDSs are included as Exhibit B to this response.

b. suppliers

A list of suppliers is included as Exhibit C to this response.

c. how used

Hazardous materials are used in various machining and assembly processes involved in the manufacture of hot stamp and thermal transfer printing equipment. Machining processes include cut-off sawing, drilling, electric-discharge machining (EDM), milling, surface grinding and vibratory deburring. Soldering and metal heat treating are conducted on a very limited basis. The cutting, EDM, hydraulic and lubricating oils as well as machining coolant are used with machine tools in the manufacture of various components. Components are machined from ferrous metals and nonferrous metals. The aqueous cleaning solution is used to clean oil and coolant from the machined components. These components were formerly cleaned using mineral spirits.

d. when used

The various oils described in the preceding paragraph have been used since approximately 1970. Mineral spirits solvent was used to clean machined components from about 1970 until aqueous cleaning was implemented in 1999. Metals have been used since approximately 1970.

e. where used

All of the hazardous materials were used inside the building. The only manufacturing residuals that were ever stored outside prior to shipment off-site were metals chips and baghouse dust. All residuals are now stored inside the building.

f. quantities used

aqueous cleaning solution approximately 100 gallons per year (used since 1999)

EDM oil approximately 100 gallons per year
hydraulic and lubricating oils approximately 100 gallons per year
machining coolant approximately 300 gallons per year
metals approximately 50,000 pounds per year
approximately 50 gallons per year (used until 1999)

NOTE: Only hazardous materials with usages in excess of about 10 gallons per year are described above. Usages of the hazardous materials in the Attachment A list with the headings "Office Supplies", "Shop Supplies" and "Building Maintenance" are consumptive and generally less than a few gallons per year of each item.

5. Dates during which property was owned.

The property has been owned by Norwood Marking Systems or successor companies since the site was first developed in 1970. The results of a chain of title search are included as Exhibit D.

- 6. Prior owner identification, access control and hazardous substance release information.

 Norwood Marking Systems purchased the property from the Ellsworth Park Development
 Corporation in 1970 (see Exhibit D chain of title report). No information was determined
 regarding access control. There is no indication that a release or threatened release of hazardous
 substances has ever occurred on the property.
- 7. Prior operator identification, access control and hazardous substance release information.

 Norwood Marking Systems was the first company to operate a manufacturing facility at this site.
- 8. Copies of local, state and federal environmental permits.

Copies of environmental permits are included as Exhibit E to this response.

9. Description of manufacturing processes used at the facility.

Various machining and assembly processes involved in the manufacture of hot stamp and thermal transfer printing equipment are conducted at the facility. Cut-off sawing, drilling, EDM, milling and surface grinding are employed to create print heads for hot stamp printing equipment. Soldering and metal heat treating are conducted on a very limited basis. A list of chemicals utilized in the manufacturing processes is provided as Exhibit A to this response.

10. List of chemical substances produced and manufacturing by-products and wastes.

No chemical substances are produced from manufacturing processes at the facility. The following by-products and wastes result from manufacturing processes at the facility:

By-Products

ferrous and nonferrous metal shavings sludge from settling tank for vibratory deburring rinse water surface grinding dust (from small local collectors - central baghouse was removed in 1998)

Wastes

used aqueous cleaning solution (began generation in 1999) used EDM oil, hydraulic oil, lubricating oil and machining coolant used mineral spirits (ceased generation in 1999)

Analytical information for the settling tank sludge is included as Exhibit F to this response. The used oils and machining coolant are managed as used oil. The used mineral spirits was D001 hazardous waste. No equipment is used to treat wastes at the facility. Used oils, machining coolant and mineral spirits are collected in 55 gallon drums for pick-up by a disposal company. All of the by-products are collected in 55 gallon drums for pick-up by a recycling company (Acme Refining - Chicago, IL) except for the settling tank sludge which is drummed and picked up by a disposal company.

11. Production wastes disposed onsite in landfills.

No production wastes have ever been disposed onsite in landfills.

12. Manufacturing processes that utilize rinse water.

Rinse water is utilized in a vibratory deburring process at the facility. The rinse water passes through a paper filter to remove metal fines before it is recirculated to the deburring process. No rinse water is discharged into navigable waters or the local POTW. The aqueous cleaning units are self-contained and waste aqueous solution is removed directly by a disposal company.

13. Map of monitoring wells installed at the facility.

There are no monitoring wells installed at the facility.

14. Map of air monitoring devices installed at the facility.

There are no air monitoring devices installed at the facility.

15. Soil boring collected from the property.

No soil borings have been collected from the property.

16. Above-ground or below-ground storage tanks at the facility.

There have never been any above-ground or below-ground tanks at the facility. A mineral spirits cold cleaner with a capacity of about 25 gallons was previously located at the facility. Two aqueous parts washers with a capacity of about 20 gallons each are currently used.

17. Company's solvent management system at facility prior to 1980.

Prior to 1980, up to two drums of virgin mineral spirits were stored onsite. Used mineral spirits from a small cold cleaner was placed into the collection drum for used hydraulic and lubricating oil. This combination of used oil and mineral spirits was taken to an off-site location (service station in Downers Grove) and placed into their used oil collection tank. No disposal records were found the pre-1980 time period. The preceding description of waste handling practices is based on the recollections of long-time employees (Dennis Bourk and Larry Kollins).

18. Company's waste solvent handling and disposal practices prior to 1980.

See response to question 17.

19. Names of solvent suppliers, years of service and quantities of solvents received.

See responses to questions 4(b) and 4(f).

20. Names of waste solvent handlers, years of service and quantities of waste shipped.

See Exhibit G to this response for a summary of waste solvent handler information.

21. Drawings or diagrams of sanitary and storm water system at the facility.

No details on the sanitary or storm water system were found on construction drawings for the facility. A diagram that indicates the direction of storm water drainage is provided in the Notice of Intent for storm water general permit coverage that is included in Exhibit E to this response. The facility has been connected to the municipal sanitary sewer system since the property was first developed in 1970.

22. Copy of correspondence between facility and local government regarding discharges into St. Joseph Creek and the municipal sewer.

The facility has had no correspondence with any unit of local government regarding discharges into St. Joseph Creek. The facility submits a "Prohibited Materials Discharge Report" annually to the Downers Grove POTW to certify that no solvents or toxics have been dumped or spilled into the sanitary sewer system during that year. The facility has never experienced any such dumping or spill. Copies of representative discharge reports are included as Exhibit H to this response.

23. Function of floor drains at the facility.

There are several floor drains at the facility that connect to the storm sewer system. However, these drains were sealed in the early 1990s. The floor drains have never received any process water and were simply an artifact of circa 1970 construction practices.

24. Phase I or Phase II investigation information.

There has never been a Phase I or Phase II investigation conducted at this facility.

Hazardous Materials List

			OFFICE SUPPL	IES				
				REGULATED M	ATERIALS	HAZARD		FLASH
NAME	SUPPLIER	TYPE	MATERIAL	SARA	CARCIN.	FORM	REMARKS	POINT
#3525 TONER BLACK	CANON	TONER	COPIER INK		 	DUST	- 	
MT TONER II	MINOLTA	TONER	COPIER INK		1	DUST		
MT STRTER II	MINOLTA	TONER	COPIER INK			DUST		
AQUA AMMONIA	MICHLIN	SOLN.		AMMONIA		IRRITANT		
	_		ARD FROM LEAKI		 	 	_ 	
	1	AMMONIA	IS A STRONG IRA	TANT		<u> </u>		1

			SHOP SUPPLIES					
· · · · · · · · · · · · · · · · · · ·				DECLII ATED MA	TERMAN	1147400	 	FI A 611
				REGULATED MA		HAZARD	 	FLASH
NAME	SUPPLIER	TYPE	MATERIAL	SARA	CARCIN.	FORM	REMARKS	POINT
THREADLOCKER 222	LOCTITE	ANAEROB.	ADHESIVE ,	METH. ALC.	SACCHAR.	IRRIT/HEALTH	COMBUSTIBLE	200
THREADLOCKER 242	LOCTITE	ANAEROB.	ADHESIVE	METH. ALC.	SACCHAR.	IRRIT/HEALTH	COMBUSTIBLE	200
272 ADHESIVE	LOCTITE	ANAEROB.	ADHESIVE	METH. ALC.	SACCHAR.	IRRIT/HEALTH	COMBUSTIBLE	200
STATIC FREE (LIQ.)	CHEMTRONICS	SOLN	ANTI STAT				SURF. ACTIVE	
LOCQUIC ACTIVATOR	LOCTITE	AEROSOL	CHLOR. SOL.	TRICHLORO心外	The /see	HEALTH	REL. CHLO. SOLV.	
TOLE STEEL BLUE	ITW FLUID	SOLVENT	MARKING	ALC./ACET.	MSD5)	FLAMMABLE		53
SP-1138 THINNER	ITW FLUID	SOLVENT	CLEANER	BUTYL ACE.		FLAMMABLE		56
HI-SPOT BL BASE #107	ITW FLUID	SOLVENT	MARKING			COMBUSTIBLE	 	120
PRESTO BLACK BST4	BIRCHWOOD	SOLN	ACID	SE/CU/HNO3		COR/MUT.	SELINIUM TOX.	
SHEATH PS8	BIRCHWOOD	AEROSOL	PET.BASED	BARIUM CPD.		FLAMMABLE	HC PROPELLANT	
# 617	VENUS LAB.	CPD	PHOSP. ACID	PHOSP. ACID		COROSIVE	T	
SILVER FLUX #601	SUPERIOR FLUX	SOLN	POTAS, SALT				FLUORIDE, BORATE MI	X
#44Q ULTRAFINISH	ULTRAMATIC	SOLN	1				0.6 % ACTIVE	T
HINSCLEAN 612	HINSDALE	SOLN					ALKALINE CLEANER	
ELECTROBOND EB100	PACER TECH.	ADHESIVE	ET. CYANO			COMBUSTIBLE		176
SIL. RUBBER CPD C	SCHWERDLTE	RUBBER	SILICONE		l	DUST	STAMP MATL	1
HONING STONES	SUNNEN	CPD	COPM. OXIDE	AL, CU, OXIDES		DUST/FUME	COPM. MISC. OXIDES	
SHOE/MANDRL/SLEVE	SUNNEN	METAL	COMPOSITE	CR, CU CO,MN		DUST/FUME	COMPOSITE	
RF-38	SCAN-PAC	CPD	GRAPH/FBRG			DUST	IF PROCESSING	
EDM-C3	POCO	CPD	GRAPH/CU	CU		DUST/FUME		
NF-409	NATL FRICTION	CPD	OX,BR/RES.	AIO,BRS,GRH	{	DUST/FUME	COMPOSITE	
SP-350	CRC CHEM.	AEROSOL	SOLVENT			COMBUSTIBLE	CO2 PROP.	140
01976 COMPUND L	TEXACO	RUST PRF.	SOLVENT			COMBUSTIBLE		125
AINOMMA AUDA	MICHLIN	SOLN.		AMMONIA		IRRITANT		
· · · · · · · · · · · · · · · · · · ·	 	> SACCHAF	IN IN LOCTITE AD	L DHESIVE IS A SUS	PECT CARCIN	OGEN	 	
		> SELINIUM	IN PRESTO BLACK	IS A MUTAGEN	<u> </u>	T		

			COMPRESSED G	AS		ļ		
	- 		 	REGULATED N	IATERIALS	HAZARD	 	FLASH
NAME	SUPPLIER	TYPE	MATERIAL	SARA	CARCIN.	FORM	REMARKS	POINT
OXYGEN	LIQ.CARBONIC	GAS	COMPRESSED	 		OXIDIZER	+	
NITROGEN	LIQ.CARBONIC	GAS	COMPRESSED			ASPHYXIANT		
ARGON	LIQ.CARBONIC	GAS	COMPRESSED			ASPHYXIANT		
HYDROGEN	LIQ.CARBONIC	GAS	COMPRESSED			FLAMMABLE		
		> ALL CON	ITAINERS ARE UND	ER HIGH PRESS	URE	 	 	
		> HYDROG	EN WILL READILY	FORM EXPLOSIV	E MIXTURE WIT	TH AIR		
· · · · · · · · · · · · · · · · · · ·		> ARGON	AND NITROGEN WI					

			BUILDING MAIN	TAINACE				
				1				
				REGULATED MA	TERIALS	HAZARD		FLASH
NAME	SUPPLIER	TYPE	MATERIAL	SARA	CARCIN.	FORM	REMARKS	POINT
409 CLEANER	CLOROX	SOLN	OFF. SUPP.	CELLOSOLVE			3%	
SPARKLE GLASS CLNR	FUNK&CO	SOLN	OFF. SUPP.	BUTYL CELL.			10% ACTIVE	
WINDEX	DRACKETT	SOLN	OFF. SUPP.	BUTYL CELL.		COMBUSTIBLE	CONTAIN IPA	124
FANTASTIK CLNR	DOW	SOLN.	OFF. SUPP.	BUTYL CELL.		·	11% ACTIVE	
PINE OIL (ACE WINDOW)	HERCULES		OFF. SUPP.				COMBUSTIBLE	150
URINAL CLEANER	FRESH PRDT.	FRAGANCE						
ABC FIRE EXT.	AMEREX	FIRE EXT.	PHOSP.			DUST	SL. IRRITANT	
PINE 64	BALL IND.	SOLN	OFF. SUPP				4% ACTIVE	
EXPEL	BALL IND.	SOLN	OFF. SUPP	BUTYL CELL.			20% ACTIVE	
TIME OFF	BALL IND.	FL. POLISH	ACRYLIC	DBP			3%	
SYMPHONY CLEANER	BALL IND.	SOLN	OFF. SUPP	BUTYL CELL.			5%	
TERMINATOR	BALL IND.	STRIPPER	FLOOR	B.CELL/ET.AM		CORROSIVE	50% ACTIVE	
STERI-SPRAY	BALL IND.	SPRAY	ET. ALC.			COMBUSTIBLE	SCENTED	176
WEATHERBLOK	ICI AMERICA		RODENTICIDE			RAT POISON	IND. INT. BLEED.	
ROUNDUP	MONSANTO	HERB.	WEED KILLER			IRRITANT	CONSULT MSDS	
SELECTIVE HERB.	RIVERDALE	HERB.	WEED KILLER			HEALTH HAZ.	CONSULT MSDS	
SURFLAN A.S.	ELANCO	HERB.	WEED KILLER			IRRITANT	CONSULT MSDS	
LIQ. FERTILIZER	ERNY'S	SOLN.						
BARRICADE 65 WG	SANDOZ	HERB.	WEED KILLER			IRRITANT	CONSULT MSDS	
CHEMLAWN FERT.	MARCO CHEM.	TIME REL.				IRRITANT	APPLIED BY SUPP.	
CHEMLAWN FERT.	MARCO CHEM.	LIQ. FERT.				IRRITANT	APPLIED BY SUPP.	Till Till Till Till Till Till Till Till

			METALS					
				REGULATED MA	TERIALC	1147400		5. 40.
						HAZARD		FLASH
NAME	SUPPLIER	TYPE	MATERIAL	SARA	CARCIN.	FORM	REMARKS	POINT
LEAD	AMES	METAL	LEAD	P8		DUST/FUME	100% LEAD	
ROSIN CORE SOLDER	SPC	METAL	LEAD ALLOY	PB		DUST/FUME	60% LEAD	1
BRASS ALLOY	RYERSON	METAL	BRASS	PB,CU,ZN		DUST/FUME	4% LEAD	1
COPPER ALLOY	MORGAN	METAL	BRONZE	PB,CU,NI,ZN		DUST/FUME	>1% LEAD	1
ALUM. CASTING ALLOY	BRUMUND	METAL	ALUM. INGOT	LEAD		DUST/FUME	0.15% LEAD	
TUNSTEN CARBIDE	HERTEL	METAL		COBALT		DUST/FUME	TRACE	1
ATOMET 29	QUEBEC METAL	METAL	IRON PWDER			DUST/FUME	TRACE	
ALUM. CASTING	PRECISION	METAL	ALUM INGOT	CR,CU,NI		DUST/FUME	TRACE	
PRS MAG. PLATES	SPECTULITE	METAL	MAG. ALLOY			DUST/FUME	TRACE	
ALUM ALLOY	RYERSON	METAL	ALUM ALLOY	CR, MN,CU		DUST/FUME	TRACE	1
STEEL	RYERSON	METAL	STEEL	PB,CR, CU		DUST/FUME	TRACE	
STAINLESS STEEL	RYERSON	METAL	ST. STEEL	CR, CUNBI,MN		DUST/FUME	TRACE	1
STEEL	KLOSTER	METAL	STELL TOOL	CR,CO,NI,MN		DUST/FUME	1 - 12 % ALL	
TUNSTEN CARBIDE	KENNAMETAL	METAL	TUNGS.CARB	CO		DUST/FUME	25% CO	
ALUMINUM	SCHWERDLTE	METAL	ALUM.	CU, MN,ZN,CR		DUST/FUME	STAMP MATL(TRACE)	
		 		 	<u> </u>	 		
		> LEAD AN	D LEAD CONTAIN	ING MATERIALS A	RE HIGLY REG	ULATED MATERIA	LS	
		IN THE WO	ORK PLACE.					
		AVOID IN	ILATION AND ING	ESTION OF THE M	ATERIAL.			

			OIL & GRINDING	G FLUID				
			•	REGULATED M	ATERIALS	HAZARD		FLASH
NAME	SUPPLIER	TYPE	MATERIAL	SARA	CARCIN.	FORM	REMARKS	POINT
TUF TAP	EEZ PRODTS.	OIL	PET. BASED	+		MIST/FUME		350
RUSTLICK EDM-250	BELMONT EOPT.	OIL	PET. BASED			MIST/FUME		244
VELOCITE OIL # 6	MOBIL	OIL	PET. BASED		1	MIST/FUME	SPINDL;E OIL	310
DTE 24	MOBIL	OIL	PET. BASED			MIST/FUME	HYDRAULIC OIL	395
VACMUL 3 A	MOBIL	OIL	PET. BASED			MIST/FUME	METAL PROCESS. OIL	260
VACTRA OIL # 1	MOBIL	OIL	PET. BASED			MIST/FUME	WAY OIL	350
TELLUS(R) OIL 68	SHELL	OIL	PET. BASED			MIST/FUME	HYDRAULIC OIL	370
TELLUS(R) OIL 32	SHELL	OIL	PET. BASED			MIST/FUME	HYDRAULIC OIL	370
TELLUS(R) OIL 10	SHELL	OIL	PET. BASED			MIST/FUME	HYDRAULIC OIL	300
MYSTIK JT-R	CATO OIL	GREASE	PET. BASED	ZN CPD		MIST	IRRITANT	
CLC LUBE HO-149-Z	CLC LUB.	OIL	PET. BASED			MIST/FUME		> 200
CK448A GEAR OIL	SUNNEN	OIL	PET. BASED			MIST/FUME		565
MB-30-55 HONING OIL	SUNNEN	OIL	PET. BASED			MIST/FUME		310
MELQUENCH HS 234	METAL LUBRICT	OIL	PROPIETARY	•		MIST/FUME		360
MELKUT 291	METAL LUBRICT	OIL	PROPIETARY			MIST/FUME		340
TRIM SOL	MASTER CHEM,	GRD. FL.	PET./SURF.			COMBUSTIBLE	WATER MISC.	305
HINSCOOL 243	HINSDALE	GRD. FL.	SOLN.				WATER BASED	
SUPER AGITENE	GRAYMILLS	SOLVENT	PET.BASED			COMBUSTIBLE		110
	news cleaner	1			<u> </u>	<u> </u>	<u> </u>	<u> </u>
6300		> AVOID M	IISTING AND FUM	ING CONDITION D	URING PROCE	ssing.	<u> </u>	

			PLASTIC MATE	RIAL				
		_		REGULATED M	IATERIALS	HAZARD		FLASH
NAME	SUPPLIER	TYPE	MATERIAL	SARA	CARCIN.	FORM	REMARKS	POINT
ACETAL	POLYMER CORP	PLASTIC	ACETAL			DUST	IF PROCESSING	
LEXAN	GE	PLASTIC	POLY CARB.			DUST	IF PROCESSING	
PLEXIGLAS	ROHM & HAAS	PLASTIC	ACRYLIC	M. METHA		DUST/FUME	RES. MONOMER	
DELRIN	DUPONT	PLASTIC	ACETAL RES.			DUST	IF PROCESSING	
TEFLON	PLASTIC WORKS	PLASTIC	TFE			DUST	IF PROCESSING	

Office MSDSs

MSDS#: CPY-0167-001 (1/ 3) Canon

MATERIAL SAFETY DATA SHEET

Canon U.S.A., Inc. One Canon Plaza

Lake Success, NY 11042 Telephone: 516-488-6700 24 hr. Emergency Contact CHEMTREC: 800-424-9300

Date of preparation: 11/85 Date of revision:

SECTION 1 PRODUCT IDENTIFICATION

TRADE NAME:

NP-3025/3225/3525/3725 Toner Black

PRODUCT DESCRIPTION: \ Toner powder for Canon copiers (350g)

ITEM NO:

F41-4008-750 , F41-4001

NFPA HMIS RATING:

Health: 0, Flammability: 1, Reactivity: 1

SECTION 2 INGREDIENTS

Principal Component(s)	CAS No.	Wt. &	ACGIH (TLV)
Styrene Acrylate Copolymer Iron Oxide	25153-46-2	55-60	N/A
	1317-61-9	40-50	N/A

Manufacturer contact states all other information is proprietary.

\cdot N/A = Not Applicable

Concerning carcinogenicity, the ingredients listed above are not listed on the latest NTP Annual Report, IARC Monographs and OSHA regulations.

SECTION 3 PHYSICAL DATA

APPEARANCE AND ODOR:

BOILING POINT (C): N/A MELTING POINT: N/A

VAPOR PRESSURE (mmHg.):

Negligible. N/A

VAPOR DENSITY (AIR=1):

SOLUBILITY IN WATER: Negligible. 1.4

SPECIFIC GRAVITY (Water=1):

PERCENT VOLATILE BY VOLUME: Negligible. EVAPORATION RATE (BUTYL ACETATE=1): Negligible.

PH IN CONCENTRATE:

PH IN DILUTION AS USED:

Cannot be determined. Cannot be determined.

Fine powder, slight plastic odor.



MSDS NO. PPC-002-NJ DATE PREP. 6/01/92 PAGE 1 of 3

MINOLTA CORPORATION 101 WILLIAMS DRIVE RAMSEY, NJ 07446

EMERGENCY TEL. NO.

CONTACT YOUR REGIONAL

POISON CONTROL CENTER

INFORMATION TEL. NO.

201-825-4000

SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT: MT Toner II

EQUIPMENT NO. EP50, EP270, EP370, EP370Z, EP410Z, EP415Z, EP425Z, EP450, EP450Z, EP470Z, EP490Z, EP2100, EP2120, EP2121, EP2151, EP3120, EP3150, EP3170, EP4210, EP4230, EP4233, EP4300, EP4301, EP4320, EP4321, EP5400, EP5401, EP5320, EP5420

SECTION 2 - PRODUCT AND COMPONENT HAZARD DATA

INGREDIENT	CAS NO./NJ REG. NO.	OSHA PEL-TWA	ACGIH TLV-TWA	2
Styrene acrylate copolymer	NJ # 361615-5001-P	N.AP.	N.AP.	>80
Copper oxide	1317-38-0	N.AP.	N.AP.	5-10
^ ranic pigment	NJ # 361615-5014-P	N.AP.	N.AP.	1-5
:bon black	1333-86-4	3.5mg/m3	3.5mg/m3	1-5
lypropylene	9003-07-0	N.AP.	N.AP.	1-3

As total nuisance dust

15mg/m3

10mg/m3

Toner, as a mixture, is considered a nuisance dust.

HMIS RATING:

HEALTH: 0

FLAMMABILITY: 1

REACTIVITY: 1

SECTION 3 - EMERGENCY AND FIRST AID

INHALATION:

Wash nostrils, rinse mouth.

INGESTION:

Dilute stomach contents with several glasses of water.

EYES:

Flush with water for 15 minutes.

SKIN:

Wash with soap and water.

PRIMARY ROUTE OF ENTRY: Inhalation

SYMPTOMS OF OVEREXPOSURE

ACUTE: Minimal respiratory tract irritation may occur as with exposure to large amounts of any nontoxic dust. May cause

cough and raise phlegm.

CHRONIC: None.

MINOLTA

MATERIAL SAFETY DATA SHEET

MSDS NO. PPC-102 DATE PREP. 4/1/91 PAGE 1 of 3

HINOLTA CORPORATION 101 WILLIAMS DRIVE RAMSEY, NJ 07446 EMERGENCY TEL. NO.

CONTACT YOUR REGIONAL

POISON CONTROL CENTER

INFORMATION TEL. NO.

201-825-4000

SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT: MT Starter II

EQUIPMENT NO. EP450, EP450Z

REACTIVITY: 1

SECTION 2 - PRODUCT AND COMPONENT HAZARD DATA CAS NO. OSHA PEL-TWA INGREDIENT ACGIH TLV-TWA Carrier >90 Magnetite N.AP. N.AP. Styrene acrylate copolymer N.AP. N.AP. Carbon black 1333-86-4 3.5mg/m^3 3.5mg/m^3 Amorphous silica 7631-86-9 N.AP. N.AP. Toner <10 Styrene acrylate copolymer N.AP. N.AP. Carbon black 1333-86-4 3.5mg/m^3 3.5mg/m^3 As total nuisance dust 10mg/m^3 Starter, as a mixture, is considered a nuisance dust.

SECTION 3 - EMERGENCY AND FIRST AID

FLAMMABILITY: 1

INHALATION: Wash nostrils, rinse mouth.

INGESTION: Dilute stomach contents with several glasses of water.

EYES: Flush with water for 15 minutes.

SKIN: Wash with soap and water.

PRIMARY ROUTE OF ENTRY: Inhalation

HMIS RATING: HEALTH: 0

SYMPTOMS OF OVEREXPOSURE

ACUTE: Minimal respiratory tract irritation may occur as with

exposure to large amounts of any nontoxic dust. May cause

cough and raise phlegm.

CHRONIC: None.

MSDS Identity number: 1#2#3

NFPA HAZARD RATING

HEALTH

2

MSDS Revision date : November 14, 1991

FIRE REACTIVITY 0

Gionature of Preparer

SPECIFIC HAZARD COR

Section 1 - PRODUCT INFORMATION

Manufaoluror's Namo:

Michlin Diazo Products Corp.

Phone No:

(313) 846-5700

10501 Haggerty Stroet

Dearborn, MI 4812G

OHEM-TEL 24 Hr. Emergency No. (800) 265-3924

Common Name.

AQUA AMMONIA

Chemical Name: PRODUCT USE

AMMONIUM HYDROXIDE SOLUTION

Diazo dovoloper, fertilizers, household cleaners

Section II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

INGREDIENTS	<u>OSHA</u>	ACGIH	C.A.S. No.	PERCENT	
Number 1 Strength					
AMMONIA GAS IN WATER	35(STEL)	35(STEL)	1336-21-6	29.4%	
WATER	NONE	NONE	7732-18-5	70,6%	
Non-Hazardous Corrosive Inh	Mixture	Traco			
Number 2 Strength					
AMMONIA GAS IN WATER	35(STEL)	35(STEL)	1336-21-6	25.5%	
WATER	NONE	NONE	7732-18-5	74.5%	
Non-Hazardous Corrosive Inh	ibitor		Mixture	Trace	
Number 3 Strength					
AMMONIA GAS IN WATER	35(STEL)	35(STEL)	1336-21-6	17.8%	
WATER	NONE	NONE	7732-18-5	82,2%	
Non-Hazardous Corrosive Inh	ibitor		Mixture	Trace	

Section III - PHYSICAL/CHEMICAL CHARACTERISTICS

Physical State:

Liquid

Odor threshold

<= 5 ppm

Appearance/Odor:

Colorless liquid with pungent Irritating odor.

Specific Gravity(H2O=1):

0.8974 @ 15.5 Dogree C

Bolling Point (Dog. C): 27 C

Vapor Pressure (MM Hg) ; 550 @ 20 Deg. C.

Evaporation Rate (Water=1):

No Data

Vapor Pressure:

475 MMHg @ 15.5 Degree C

Percent volatile by volume

No Data

Solubility in water:

Complete

Freezing Point:

Approximately -75 Degree C

pH:

11 - 13

Sensitivity to Mechanical Impact: N/A

Rate of Burning

Will not burn

REC'D FEB 23 1994

Shop Supplies MSDSs



705 North Mountain Road Newington, Connecticut 06111 Emergency Phone (203) 278-1280 Fax (203) 280-3558

I. PRODUCT IDENT	IFICATION	PRODUCT NO.: 222
PRODUCT NAME:	Small Screw Threadlocker 222	issued: 1/1/93
ITEM NUMBERS:	22221, 22231, 22241	
PRODUCT TYPE:	Anaerobic	
FORMULA NO.:	Does not apply	

II. COMPOSITION

REC'DFEB 1 5 1994

Ingredients	CAS No.	X .
Polyglycol Dimethacrylate Polyglycol Dimethacrylate SACCHARIN CÜHENE HYDROPEROXIDE* METHYL ALCOHOL* SILICA, AHORPHOUS TREATED N. 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25852-47-5 9004-96-0 81-07-2 80-15-9 67-56-1 112945-5 613-48-9 13463-67-7	53 557-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-

* This component is listed as a SARA Section 313 Toxic Chemical.

CHEMICAL AND PHYSICAL PROPERTIES

```
Less than 5mm at 80°F
                                               1.05 at 80°F
Hore than 300°F
Iatile Organic Compound
EPA Hethod 24)
appration Rate
Ether = 1)
                                              13.2%; 138.6g/1
                                               Not available
Does not appl
Purple liquid
Kild
PEATANCE:
```

FLAMMABILITY AND EXPLOSIVE PROPERTIES

```
ash Point:
timated NFPA Code:
Health Hazard:
Fire Hazard:
Specific Hazard:
Specific Hazard:
Health Hazard:
Health Hazard:
Flammability Hazard:
Flammability Hazard:
Personal Protection:
See Section X.

**Plosive Limits:
**Dy volume in air) Lower Methanol: 6%
**Dy volume in air) Upper Methanol: 36%
**Lecommended Extinguishing Agents:
Carbon dioxide, foam, dry dazardous Products Formed by Fire or Thermal Decomp Irritating organic vapors
Inusual Fire or
Explosion Hazards:
None
None
None
Does not apply
                      Point:
Ated NFPA Code;
                                                                                                         More than 200°F
                                                                                                                                                                                                  Method: Tag Closed Cup
                                                                                                        Carbon dioxide, foam, dry chemical
Compressed Gases:
Pressure at Room Temp.:
```

Steps to be taken in case of spill or leak: Soak up with an inert absorbent. Store in partly filled, closed container until disposal. Recommended methods of disposal: Incinerate following EPA and local regulations.

STORAGE AND HANDLING PROCEDURES

Storage: Handling:		prolonged	skin	contact.	Keeb	away	from	eyes.
VII SHIPPING REGULATIONS							•	
DOT (49 CFR 172) Proper Shipping Name	Unres	tricted						•

Hazard Class of Unrestricted dentification Number None . Proper Shipping Name Unrestricted

IEL 140. 180-031-8080

שויבו וטיםבתתו בבאתנואט כט

MATERIAL SAFETY DATA SHEET

705 North Mountain Road Newington, Connecticut 06111 Emergency Phone (203) 278-1280 Fax (203) 280-3558

#007 LT7

I. PRODUCT IDENT	IFICATION	PRODUCT NO.: 242
PRODUCT NAME:	Removable Threadlocker 242	Issued: 1/1/93
ITEM NUMBERS:	24205, 24221, 24231, 24241	
PRODUCT TYPE:	Anaerobic	:
FORMULA NO.:	Does not apply	

COMPOSITION

Ingredients	CAS No.	*	REC'D FEB 1 5 1994
Polyglycol Dimethacrylate Polyglycol oleate SACCHARIO SACCHARIO SUBERE HYDROPEROXIDE* METHY ALCOHOL* SILICA, AMORPHOUS TREATED N.N-Dialkyltoluidines Titanium bioxide	25852-47-5 25042-96-0 810-15-9 61-2945-52-5 613463-67-7	6253-1-1-1 6253-1-1-1 6253-1-1-1 1111-1	WEG 6 1 CO 10 1034

^{*} This component is listed as a SARA Section 313 Toxic Chemical.

CHEMICAL AND PHYSICAL PROPERTIES

Vapor Pressure: Vabor Density: Solubility/in Water: Specific Gravity: Boiling Point: Volatile Organic Compound (EPA Method 24) Evaporation Rate (Ether = 1) Less than 5mm at 80°F Not available Slight 1.1 at 75°F More than 300°F 13.3%; 146.3 g/l Not available Does not apply Blue liquid Mild Appearance:

IV. FLAMMABILITY AND EXPLOSIVE PROPERTIES

Flash Point:
Estimated NFPA Code:
Health Hazard:
Reactivity Hazard:
I Specific Hazard:
I Reactivity Hazard:
I Reac Method: Tag Closed Cup Carbon dioxide, foam, dry chemical

SPILL OR LEAK AND DISPOSAL PROCEDURES

Steps to be taken in case of spill or leak; Soak up in an inert absorbent. Store in a partly filled, closed container until disposal. Recommended methods of disposal: Incinerate following EPA and local regulations.

STORAGE AND HANDLING PROCEDURES

Store below 110°F to preserve shelf life. Avoid prolonged skin contact. Keep away from eyes. Storage: Handling:

SHIPPING REGULATIONS

DOT (49 CFR 172)
Proper Shipping Name
Hazard Class or
Division Unrestricted Unrestricted None dentification Number IATA Proper Shipping Name Unrestricted 185



705 North Mountain Road Newington, Connecticut 08111 Emergency Phone (203) 278-128 Fax (203) 280-3558

			
I. PRODUCT IDENT			PRODUCT NO.: 272
PRODUCT NAME:		ure 272 Adhesive/Sealant	Issued: 1/1/93
ITEM NUMBERS:	27240		
PRODUCT TYPE:	Anaerobic		
FORMULA NO.:	LO-508		*
II. COMPOSITI	ON		
Ingredients		CAS No.	REC'D FEB 1 5 1994
Aromatic dimet Maleimide resi CUMENE HYPROPE Hydroxyalkyl m METHYL ALCOHOL SILICA, ACCHOL 1-Acetyl-2-phe N N-Dialkyltol MALEIC ACID SACCHARIN	hacrylate es n ROXIDE* ethacrylate OUS TREATED nylhydrazine uidines	ter 24448-20-2 75-80 3006-93-7 10-15 80-15-9 1-3 27813-02-1 1-3 112945-52-5 1-3 114-83-0 01-1 613-48-9 01-1 81-07-2 01-1	
		as a SARA Section 313 Toxic Chemic	al.
III. CHEMICAL	AND PHYSICA	L PROPERTIES	*>
Vapor Pressure Vapor Density: Solubility:in Specific Gravi Boiling Point: Volatile Organ (EPA Method 2 Evaporation Ra (Ether = 1)		Less than 5mm at 80°F Not available Slight 1.11 at 75°F More than 300°F	
(EPA Method 2 Evaporation Ra (Ether = 1) pH: Appearance: Odor:	te	8.1%; 89.9 grams per liter Not available Does not apply Red Liquid Mild	
	ITY AND EXPL	OSIVE PROPERTIES	
Flash Point: Estimated NFPA	Code:	More than 200°F Method: Tag 1 1 1 Does not apply	Closed Cup
Health Hazar Fire Hazard: Reactivity H Specific Haz Estimated HAIS Health Hazar Flammability Reactivity H "Personal Pro Explosive Limi	LBI	1 1 See Section X. 6% Methanol	
(% by volume i	n air)Upper	36% Methanol	
Extinguishing Hazardous Production The Control of t	Agents: ucts Formed ermal Decomp	Carbon dioxide, foam, dry chemical Irritating organic vapors	
Unusual Fire of Explosion Haz Compressed Gas Pressure at Ro	ards: es: om Temp.:	None None Does not apply	
V. SPILL OR L	EAK AND DISPO	DSAL PROCEDURES	
Steps to be taged of spill or l	ken in case eak:	Soak up in an inert absorbent. Stofilled, closed container until disp	ore in partly
Recommended me of disposal;	thods	Incinerate following EPA and local	
VI. STORAGE A	ND HANDLING	PROCEDURES	•.
Storage: Handling:		Store below 110°F to preserve shelf Avoid prolonged skin contact. Keep	life, away from eyes.
VII. SHIPPING		,	·
DOT (49 CFR 17) Proper Ship Hazard Clas Division Identificat		Unrestricted Unrestricted None	·
• .			





Static Free® (liquid) C3200, C400

IDENTIFICATION

Name:

Static Free

CAS Registry No.: Mixture

Manufacturer: Chemtronics, Inc.

8125 Cobb Center Drive Kennesaw, GA 30144

Chemical Family: Quanternary Ammonium

Formula: **Proprietary**

Medical/Transportation **Emergency Phone:** 1-800-424-9300 (Chemtrec)

(404) 424-4888 (404) 424-4267 (Fax)

PHYSICAL DATA

Boiling Point: 212'F Vapor Pressure: 18 mm Hg @ 68°F

Vapor Density (Air=1): 1 @ 68°F

Solubility in Water: Negligible

Specific Gravity (Water=1):

Melting Point: N/A

Evaporation Rate (Butyl acetate=1): >1

Appearance: Clear Form: Liquid

Color: Light amber Odor: Slight solvent

INGREDIENTS

Material(s): **Topical Antistat** CAS Registry No.(s):

61791-10-4

HAZARDOUS REACTIVITY

Stability: Material is stable. However, avoid exposure to strong acids, bases and other reactive materials.

Decomposition or By-products: Under extreme heat small amounts of CO, NO, and HCI may be evolved.

Incompatibility: Strong acids, bases, other oxidizing chemi-

Polymerization: Will not occur.

FIRE AND EXPLOSION DATA

Flash Point: None Method: TOC

Autoignition Temperature: N/A Flammable Limits in Air, % by Vol.:

I ower: N/A Upper: N/A

Autodecomposition Temperature: N/A

Fire and Explosion: Decomposition may occur.

Extinguishing Media: Nonflammable Special Fire Fighting Instructions: None

HEALTH HAZARD INFORMATION

Principal Health Hazards-Routes of Entry:

Inhalation: May cause imitation to the respiratory tract. Eye: Liquid contact may result in irritation and eye damage.

Ingestion: May cause irritation to the mouth, throat and stom-

Skin: Liquid contact may result in minor imitation.

Primary skin irritation = 6.29 (25-hour exposure, rabbit)

Exposure Limits:

Material:

TWA (ACGIH):

STEL (ACGIH):

(OSHA):

Topical Antistat

Signs and Symptoms of Over-Exposure:

Inhalation: Over exposure may result in irritation of nasal passages, mouth and throat, with coughing.

Eye: Contact with liquid may result in severe irritation, reddening, conjunctivitis, tearing of the eye and possible corneal damage.

Ingestion: May result in irritation of the linings of the mouth, throat and stomach, with attendant nausea.

Skin: Contact may result in slight irritation and reddening of the skin. Usually no lasting effect.

Medical Conditions Possibly Aggravated by Exposure: Pre-existing respiratory conditions. (See Inhalation section)

Inhalation: Remove to fresh air and call a physician. If not breathing, give artificial respiration, preferrably mouth-to-mouth. If breathing difficult, give oxygen.

Eye: Immediately flush with water for at least 15 minutes. Contact lenses should be removed if the initial flush doesn't wash them out. Seek immediate medical attention.

Ingestion: DO NOT induce vomiting. Aspirating the material into the lungs can result in chemical pneumonia and lead to pulmonary edema, which is potentially fatal. Give plenty of water. Seek immediate medical attention.

Skin: Flush with water. If irritation occurs or persists, seek medical attention.

Carcinogenicity:

Components are not listed as carcinogens by IARC or NTP. OSHA regulated - no. Toxic - yes; low toxicity. (See Inhalation and Ingestion sections)

TEL NO:708-897-0806

#885 F02

4000 100

705 North Mountain Road Newington, Cannecticut 06111 Emergency Phone (203) 278-1280 Fax (203) 280-3558

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENT	IFICATION	PRODUCT NO.: 707
PRODUCT NAME:	Locquic ^e Activator 707 (Aerosol)	Issued: 1/1/93
ITEM NUMBERS:	70715	
PRODUCT TYPE:	Aerosol Primer	
FORMULA NO.:	Not Applicable	

COMPOSITION

REC'D FEB 15 1994

Ingradients	CAS No.	z
ETHANE 1,1,1-TRICHLORG-* Butanal-aniline condensate CARBON DIOXIDE tert-BUTYL ALCOHOL* METHANE, DIMETHOXY-	71-55-6 9003-37-6 124-38-9 75-65-0 109-87-5	80-85 10-15 2-5 1-3 1-3

^{*} This component is listed as a SARA Section 313 Toxic Chemical.

CHEMICAL AND PHYSICAL PROPERTIES

Vapor Pressure: Vapor Density: Solubility in Water: Specific Gravity: Boiling Point: Volatile Organic Compound (EPA Hethod 24) Evaporation Rate (Ether 1) Approximately 100 mm at 70°F Approximately 4.5 Slight 1.20 at 80°F Approximately 175°F 14.9% Not available Not Applicable Brown liquid Appearance: Odor: Sharp 1.5

FLAMMABILITY AND EXPLOSIVE PROPERTIES

Flash Point:
Estimated NFPA Code:
Health Hazard:
Fire Hazard:
Reactivity Hazard:
Estimated HMIS Code:
Health Hazard:
Flammability Hazard:
Reactivity Hazard:
Reactivity Hazard:
Estimated HMIS Code:
Health Hazard:
Flammability Hazard:
Reactivity Hazard:
Explosive Limits:
(% by volume in air)Lower Method: Tag Closed Cup None Does not apply Šee Section X. 7% 1.1.1-Trichloroethane
2.4% t-Butyl alcohol
2.2% Dimethoxymethane
15% 1.1.1-Trichloroethane
8% t-Butyl alcohol
13.1% Dimethoxymethane (% by volume in air)Upper

Recommended
Extinguishing Agents: Carbon dioxide,
Hazardous Products Formed
by Fire or Thermal Decomp Toxic chlorides
Unusual Fire or
Explosion Hazards: Cans may rupture
Compressed Gases: Carbon dioxide
Pressure at Room Temp.: 50 psi Carbon dioxide, Foam, Dry Chemical Cans may rupture in fires. Carbon dioxide 50 psi

SPILL OR LEAK AND DISPOSAL PROCEDURES

Steps to be taken in case of spill or leak: Allow to evaporate with good ventilation. residue in an inert absorbent. Recommended methods of disposal: Follow EPA and local regulations for disposal of chlorinated hydrocarbons under pressure.

STORAGE AND HANDLING PROCEDURES

Store below 110°F. Avoid prolonged breathing of vapor. Storage: Handling:

VII. SHIPPING REGULATIONS

DOT (49 CFR 172) Proper Shipping Name Ground: consumer Commodity Air: Consumer Commodity Hazard Class or Division Ground: QRM-D

545

from: ITW FLUID PRODUCTS at #123-4567

To: The Person at Extension S3. at #117089861881

02-15-94 09:09 am 002 of 005

MATERIAL SAFETY DATA SHEET

DUCT NAME: TOLE STEEL BLUE DX-100 HMIS CODES: H F R P FußMULA KEY: -8706 2 3 0 B

FINISHED GOODS: TRANSPARENT LAYOUT FLUID

2 cz. felt tip ~ 80200 4 cz. B-I-C - 80300

8 az. B-I-C - 80400 1 pint - 80500 REC'OFEB 23 1994 1 quart - 80600 1 gal. - 80700

5 gal. - 80800 55 gal. - 80900

Correction pen - 84900 .5 oz. B-I-C - 80100

MANUFACTURER'S NAME: ITW FLUID PRODUCTS GROUP

ADDRESS : 8501 DELPORT DRIVE

ST. LOUIS, MO 63114

EMERGENCY PHONE

: 800-4249300 CHEMTREC DATE PRINTED : 02/01/94 : 800-443-9536 DATE PREPARED : March 31, 1993 INFORMATION PHONE : 800-443-9536

======== SECTION II _ WAZARDONS INCREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS	VAPOR I CAS NUMBER mm Hg	PRESSURE @ TEMP	weight Percent
ETHANOL	000064-17-5 40		31-50%
TLV:1000 ppm * BUTYL ACETATE	000123-86-4 10	20C	31-50%
ACGIH TLU: 150 PPM TWA, 200 PPM STEL OSHA PEL: 150 PPM TWA, 200 PPM STEL OPROPANOL	000067-63-0 33	20 C	1-5%
PEL/TLU:400 ppm STEL:500 PPM NITROCELLULOSE	009004-70-0 NA		1-5%
NONE ESTABLISHED * NORMAL BUTYL ALCOHOL, 1-BUTANOL	000071-36-3 5.5	20C	1-5%
ACGIH TLV 50 PPM CEILING, SKIN OSHA PEL 50 PPM CEILING, SKIN NORMAL PROPYL ACETATE	000109-60-4 40	19C	1-5%

PEL: 1000 ppm

* Indicates toxic chemical(s) subject to the reporting requirements of section

313 of Title III and of 40 CFR 372.

======== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS SPECIFIC GRAUITY (H20=1) BOILING RANGE: 163F - 257F OHPUR DEMOTIT: (HIR = I): >I FAHLORHIION RHIF: (RMHC=1): CUHILING V.U.C.: 6.27 10/01 MHIEKIHE V.U.C.: b.Zr ib/gi

SOLUDILITY IN WATER: Appreciable

APPEARANCE AND ODOR. Blue transparent low viscosity liquid with sweet solvent odor

FIRE AND EXPLOSION HAZARD DATA -----SECTION IV -FLASH POINT: 53 F METHOD USED: CC

"AMMABLE LIMITS IN AIR BY WOLUME LOWER' 1.38 UPPER: 12

XTINGUISHING MEDIA: Water No. CO2 Yes, Dry chemical Yes, Foam Yes, Alcohol foam

SPECIAL FIREFICHTING PROCEDURES: Fire fighters should wear self contained breathing apparatus in confined areas.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapure: are beautier than air and may travel along ground, or be moved by ventilation and be ignited by ignition source. -----SECTION U - REACTIVITY DATA

STABILITY: Chemically stable.

COMPITIONS TO AUDID: Heat, smarks, and open flames.

"RODUCT NAME: THINNER AND REMOVER SP-1138 HMIS CODES: H F R P
JRMULA KEY: -8707A 2 4 0 B

FINISHED GOODS: REMOVERS AND THINNERS

16 oz. aerosol - 82038

========= SECTION I - MANUFACTURER IDENTIFICATION =========

MANUFACTURER'S NAME: ITW FLUID PRODUCTS GROUP

ADDRESS : 8501 DELPORT DRIVE REC'D FEB 23 1994

ST. LOUIS, MO 63114

EMERGENCY PHONE : 800-4249300 CHEMTREC DATE PRINTED : 02/01/94

INFORMATION PHONE : 800-443-9536	DATE PREPARED :		1993
REPORTABLE COMPONENTS	VAPOR E CAS NUMBER mm Hg	RESSURE @ TEMP	PERCENT
ETHANOL	000064-17-5 40		
TLV:1000 ppm * BUTYL ACETATE	000123-86-4 10	20C	11-30
ACGIH TLV: 150 PPM TWA, 200 PPM STEL OSHA PEL: 150 PPM TWA, 200 PPM STEL PROPANE	000074-98-6 120	70 F	6~10%
OSHA TLV 1000 ppm ISOBUTANE	000075-28-5 50	70 F	6-10%
OSHA TLU 1000 ppm NORMAL PROPYL ACETATE	000109-60-4 40	19C	1-5%
PEL: 1000 ppm ISOPROPANOL	000067-63-0 33	- 20 C	1-5%

PEL/TLU:400 ppm STEL:500 PPM

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

CDATING V.O.C.: 7.01 lb/gl MATERIAL V.O.C.: 7.01 lb/gl

SOLUBILITY IN WATER: Appreciable

APPEARANCE AND ODOR: Colorless transparent low viscosity liquid with sweet

solvent odor

======== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =======

FLASH POINT: -156 F METHOD USED: OC

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1.38 UPPER: 12

EXTINGUISHING MEDIA: Water No, CO2 Yes, Dry chemical Yes, Foam Yes, Alcohol fodi

SPECIAL FIREFIGHTING PROCEDURES: Fire fighters should wear self-contained breathing apparatus in confined areas.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors are heavier than air and may travel long ground, or be moved by ventilation and be ignited by ignition source.

STABILITY: Chemically stable.

CONDITIONS TO AVOID: Heat, sparks, and open flames.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Oxides of carbon.

HAZARDOUS POLYMERIZATION: Will not occur.

 To: The Person at Extension S3, at #T17089861881

MATERIAL SAFETY DATA SHEET

JDUCT NAME: HI-SPOT BLUE BASE #107

HMIS CODES: H F R P

FORMULA KEY: -8716

FINISHED GOODS: MARKING PRODUCTS

.11 oz. tube - 83107 .22 oz. tube - 83207

REC'D FEB 23 1994

.55 oz. tube - 8330? 14 oz. can - 8750?

blue low halogen .55 oz. tube - 83399

MANUFACTURER'S NAME: ITW FLUID PRODUCTS GROUP

: 8501 DELPORT DRIVE

ST. LOUIS, MO 63114

EMERGENCY PHONE

: 800-4249300 CHEMTREC DATE PRINTED : 02/01/94 : 800-443-9536 DATE PREPARED : March 31, 1993 INFORMATION PHONE : 800-443-9536

====== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION ===

VAPOR PRESSURE

WEIGHT mm Hg @ TEMP PERCENT REPORTABLE COMPONENTS CAS NUMBER

4,4-DIMETHYLOXAZOLIDINE

051200-87-4 100 70 11-30%

NONE ESTABLISHED

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

========= SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE: 99 C - 212 F

SPECIFIC GRAVITY (H2D=1): 0.99 EVAPORATION RATE: (BuAc=1): <1 MATERIAL V.O.C.: 0.00 lb/gl `POR DENSITY: (Air = 1): >1 LATING U.O.C.: 0.00 lb/gl

SOLUBILITY IN WATER: Insoluble

APPEARANCE AND ODOR: Blue opaque paste like solid with petroleum oil odor.

======== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =======

FLASH POINT: 120 F METHOD USED: TCC

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: n/a UPPER: n/a

EXTINGUISHING MEDIA: Water No, CO2 Yes, Dry chemical Yes, Foam Yes, Alcohol foam

SPECIAL FIREFIGHTING PROCEDURES: Fire fighters should wear self-contained

breathing apparatus in confined areas.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

STABILITY: Chemically stable.

CONDITIONS TO AVOID: None

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Oxides of carbon.

HAZARDOUS POLYMERIZATION: Will not occur.

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: High concentrations of vapors may produce irritation of the respiratory tract, headache, dizziness, and

nausea.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Slight irritation.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Slight irritant.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: No data.

HEALTH HAZARDS (ACUTE AND CHRONIC):

ute: Slight irritation.

Laronic: Effects are not known.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

ACGIH CARCINOGENICITY: No

TOXICITY DATA:

PRODUCT NAME: PRESTO® BLACK BST4 ITEM NUMBER: 5300-- PREPARED: 6/3/92 Page 1 of 5

TRANSPORTATION EMERGENCY NUMBER: CHEMTREC 800-424-9300 U.S. & CANADA 202-483-7616 INTERNATIONAL

BIRCHWOOD LABORATORIES, INC. MATERIAL SAFETY DATA SHEET

The data provided here is for hazard communication to our employees, our customers and their employees, and authorized regulatory agencies. For the intended purpose, this MSDS may be duplicated or the data transcribed to an alternative form.

NOTE: The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, Birchwood Laboratories, Inc. makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular period. Accordingly, Birchwood Laboratories, Inc. will not be responsible for damages of any kind resulting from the use of or reliance upon such information. NO REPRESENTATIONS, OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER TO WHICH THE INFORMATION REFERS.

The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment.

SECTION I

PRODUCT NAME:

PRESTO® BLACK BST4

ITEM NUMBER: 5300--

MANUFACTURED BY:

Birchwood Casey

Division of BIRCHWOOD LABORATORIES, INCORPORATED

7900 Fuller Road

Eden Prairie, MN 55344

Information Telephone Number: 612-937-7940

D-U-N-S:

096488432

CHEMICAL FAMILY:

Dilute Aqueous Acid

CHEMICAL FORMULA: N/A (Mixture)

NATIONAL FIRE PROTECTION ASSOCIATION CODES:

NFPA

HEALTH = 2

FLAMMABILITY = 0

REACTIVITY = 0

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM:

HMIS

HEALTH = 2

FLAMMABILITY = 0

REACTIVITY = 0

PERSONAL PROTECTION = C

DOT HAZARDOUS MATERIALS DESCRIPTION AND PROPER SHIPPING NAME (49 CFR 172.101): Corrosive Liquid NOS UN1760/IMCO Class 8

DOT HAZARD CLASS (49 CFR 172.101):

Corrosive Material

EMERGENCY TRANSPORTATION NUMBER: 1-800-424-9300

SECTION 1 - IDENTIFICATION

Product: SHEATH PS8 - AEROSOL

Chemical Family: Mixture Chemical Formula: NA

Chemical Trade Name, synonyms: NA

Distributed by:

Birchwood Laboratories

7900 Fuller Road

Eden Prairie, MN. 55344 Telephone: 612-937-7940

MSDS#: 91111 Date: 4-29-91

Prepared by IKI: Derek J. Bemis

SECTION 2 - INGREDIENTS

CAS REG # 106-97-8	NAME Butane	PEL/TLV, SOURCE 800 ppm, ACGIH
74-98-6	Propane	1000 ppm, OSHA
64742-48-9	Mineral Spirits	500 ppm, OSHA for Stoddard Solvent
Not Avail. *	Heavy petroleum oxygenates barium-neutralized mixture The percentage of Barium i this product is less than	. OSHA
8012-95-1	Mineral Oil	5 mg/m3, OSHA
107-98-2	Propylene Glycol mono- methyl ether	100 ppm, ACGIH

^{*} NOTE: This chemical is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372.

7411714

Material Safety Data Sheet
May be used to Comply with
OSHA's Hazard Communication Standard 29 CFR 1910.
Standard must be consulted for specific requirements

None

U.S. Department of Labor
Occupational Safety and Health Administration (Non-Mandatory Form) Form Approved OME

Identity (As	Used	On Label and List)									
617 Ur	witab				VÖTE: Blank spar informat	ces are not pe tion is available					
Section I—I	Manu	ufacturer's Name	(Add	ress, St	treet, City, State, 8	& Zip Code)					
				Emen	gency Telephone	Number					
Venus L	abo	ratories Inc		<u> </u>							
855 Liv	ely	Blvd		l elep	shone Number for	Information					
Wood Da			•	Date	Prepared						
	. .	16 00191		6-12-8							
Section II-I	laza	rdous Ingredients /	Iden	tity i	nformation				Othe	er Limits	
		(Specify Chemical Identity, Com	mon Na	rnes)		OSHAPEL	AC	NJIHE	Reco	mmended	% (apti
Phosphoric Acid	CA	S #7664-33-2	-		-	IMg/M3	IA	lg.M3	NA		
Didecyl Dimethyl Ar	nmoni	ium Chbride CAS #7173-5	1-5			N/A	No	4	NA		
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							1		1		1
Section III—	Phys	sical Chemical Chara	acteri	stics					-		
Boling Port	NA				Specific Gravity	(WATER =1)	NA			
	1	· · · · · · · · · · · · · · · · · · ·						1			
Vapor Pressure	NA				Melting Point			NA .			- -
Vapor Density	NA				Evaporation R	æte		N A			
Solubility in Water		Complete						_			
Appearance and O	jor	Pink solid with spice odor									
	ire	and Explosion Haza	rd D	ata							
Flash Point				nebie Lir	nie		旧	:		UBL	
NA	<u>. </u>		NA				NA			NA	
Extinguishing Media NA						•				• . ——	•
Special Fire Fighting	Proc	edures			 			 -			
None .	,										-
Unusual Fire and Ex	obsio	n Hazaros				· · · · · · · · · · · · · · · · · · ·					

		QUICK IDENTIF	TER (In Plant Common No	Limej
Material Safety Data	Sheet		SUPERIOR NO. 6	01 No.9
?e the Purshasen This MEDS existins imperient environmental, he information for year employees who have endered this preduct. Plats mallon is given to them. If you result this product, a copy of the MEDS the layer.	e be sure this infor-	issue Date	8/24/90	
Manufacturer's Name SUPERIOR FLUX & MFG. CO	•	Emergency Telephone Ne. (216) 461-3315	
95 ALPHA PARK.		Other Information Calls	SAME	
Eigneture of Person Responsible for Properation August Hon	with	Dete Prepared	8/24/90	
SECTION 1 - IDENTITY		•	•	
Common Name: (used on label) (Trade Name & Symmyras) SILVER SOLDER FLU	X NO. 601	Cae Ne.	SEE BELOW	•
Chemical Name NA		Chemical SILVE	R BRAZING PAST	e Plux
SEE BELOW				•
SECTION 2 - HAZARDOUS INGREDIENTS	,		.41	
Principal Hazardous Componential tehemical & common name(s)	CAS#	* BY WI.	Threshold	Limit Value tunici
POTASSIUM BIFLUORIDE	7789-29-9	10-302	2.5 M	G/M3
POTASSIUM FLUOBORATE	14075-53-7	5-20%	2.5 M	G/M3
*POTASSIUM TETRABORATE	1332-77-0	15-25%	NA	
POTASSIUM FLUORIDE	7789-23-3	5-15%	2.5 M	G/M3
*BORIC ACID	10043-35-3	25-40%	NA NA	
-water	7732-18-5	15-35%	NA.	
*NON-HAZARDOUS SUBSTANCE NFORMATION FOR MIXTURES IS BASED ON CONSTITUE!	IT MSDS WHICH ARE AVAI	ILABLE UPON REQ	UEST, (Minue Proprieta)	'\. ry Trade Names)
Section 3 - Physical & Chemical Ch	ARACTERISTICS (Fire & Explo	sion Data)	
oiling NA.	Specific Gravity (1141=1)	1.6	Vapor I'ressure tmm Hgi No	A
ercent Valatile Vapor y Valume (%) 30 Density (Air = 11 NA	Evaporation Rate	0.3		
entibility i Weter MODERATE .	Heectivity in Water	NONE		•
Specialist of the Color of Col				· · · · · · · · · · · · · · · · · · ·
lesh NONE In Air & by Volume NA	ipper Extinguisher NA Media NOT NEE	DED	Auto-Igration Temperature N	ONE
Enting Procedures NORMAL CAUTION WHEN DE	LING WITH FLUX	CHEMICALS		· · · · · · · · · · · · · · · · · · ·
ensual Fire and applosion Hazards WILL RELEASE HYDROFLUOR	IC ACID AND BORO	n TRIFLUORI	DE FUMES	
UPON DECOMPOSITION				

রেন সহার :

May be used to comply with OSHA's Hazard Communication Stand 29 CFR 1910.1200. Standard must be onsulted for specific requirements.	ard,	U.S. Department of La Occupational Safety and Health (Non-Mandatory Form) Form Approved OMB No. 1218-0072		
IDENTITY (As Used on Label and List) #44Q Ultrafinish Comp	oound	Note: Blank spaces are not permitte information is eveilable, the s	ed. If eny item is n paçe must be man	ot applicable, or no sed to indicate that.
Section I			Vihra	tore
Manufacturer's Name Ultramátic Equipment	Company	Emergency Telephone Number (708) 543-4565	Dehul	ring
Address (Number, Street, City, State, and Z 848 Westgate Drive	TP Code)	Telephone Number for Information (708) 543-4565	Com	round
Addison, IL 60101		John Kliczko	9	
Section II — Hazardous Ingredie	nts/identity Information	Nitrilotria	cetic	
Hazardous Components (Specific Chemical	Identity: Common Name(s))	Ac	1	% (options
NTA Acid		·	^ <i>U</i>	less than
		· No flammables		
		linishing medi		
		Course on plas		
The state of the s		? mex Solve. It when the		
		The second of th	· · · · · · · · · · · · · · · · · · ·	
		* *		
				-7
				-
		-		
Section III — Physical/Chemical		-		
Section III — Physical/Chemical (Characteristics	Specific Gravity (H ₂ O = 1)		1.01
		-		1.01
Boiling Point	215°F N/A	Specific Gravity (H ₂ O = 1) Melting Point Evaporation Rate		1.01 N/A
Vapor Pressure (mm Hg.) Vapor Density (AIR = 1) Solubility in Water	215°F	Specific Gravity (H ₂ O = 1) Melting Point		1.01 N/A N/A
Vapor Pressure (mm Hg.) Vapor Density (AIR = 1) Solubility in Water	215°F N/A N/A	Specific Gravity (H ₂ O = 1) Melting Point Evaporation Rate (Butyl Acetate = 1)		1.01 N/A N/A
Vapor Pressure (mm Hg.) Vapor Density (AIR = 1) Solubility in Water 100% Appearance and Odor Clear light	215°F N/A N/A nid with no ode	Specific Gravity (H ₂ O = 1) Melting Point Evaporation Rate (Butyl Acetate = 1)		1.01 N/A N/A
Vapor Pressure (mm Hg.) Vapor Density (AIR = 1) Solubility in Water 100% Appearance and Odor Clear liqu Section IV — Fire and Explosion	215°F N/A N/A nid with no ode	Specific Gravity (H ₂ O = 1) Melting Point Evaporation Rate (Butyl Acetate = 1)	· · · · · · · · · · · · · · · · · · ·	1.01 N/A N/A
Vapor Pressure (mm Hg.) Vapor Density (AIR = 1) Solubility in Water 100% Appearance and Odor Clear liqu Section IV — Fire and Explosion Flash Point (Method Used) None	215°F N/A N/A nid with no ode	Specific Gravity (H ₂ O = 1) Melting Point Evaporation Rate (Butyl Acetate = 1)		1.01 N/A N/A
Vapor Pressure (mm Hg.) Vapor Density (AIR = 1) Solubility in Water 100% Appearance and Odor Clear light Section IV — Fire and Explosion	215°F N/A N/A nid with no ode	Specific Gravity (H ₂ O = 1) Melting Point Evaporation Rate (Butyl Acetate = 1)	· · · · · · · · · · · · · · · · · · ·	1.01 N/A N/A
Vapor Pressure (mm Hg.) Vapor Density (AIR = 1) Solubility in Water 100% Appearance and Odor Clear liqu Section IV — Fire and Explosion Flash Point (Method Used) None Extinguishing Media	215°F N/A N/A nid with no ode	Specific Gravity (H ₂ O = 1) Melting Point Evaporation Rate (Butyl Acetate = 1)	· · · · · · · · · · · · · · · · · · ·	1.01 N/A N/A
Vapor Pressure (mm Hg.) Vapor Density (AIR = 1) Solubility in Water 100% Appearance and Odor Clear ligt Section IV — Fire and Explosion Flash Point (Method Used) None Extinguishing Media N/A	215°F N/A N/A nid with no ode	Specific Gravity (H ₂ O = 1) Melting Point Evaporation Rate (Butyl Acetate = 1)	· · · · · · · · · · · · · · · · · · ·	1.01 N/A N/A
Vapor Pressure (mm Hg.) Vapor Pressure (mm Hg.) Vapor Density (AIR = 1) Solubility in Water 100% Appearance and Odor Clear liqu Section IV — Fire and Explosion Flash Point (Method Used) None Extinguishing Media N/A Special Fire Fighting Procedures N/A	215°F N/A N/A nid with no ode	Specific Gravity (H ₂ O = 1) Melting Point Evaporation Rate (Butyl Acetate = 1)	· · · · · · · · · · · · · · · · · · ·	1.01 N/A N/A

SECTION I

HINSDALE CHEMICALS, INC.

1450 AMHERST COURT JOLIET, IL 60433

EMERGENCY TELEPHONE NUMBER: 1 (815) 723-3451

TRADE NAME: HINSCLEAN 612

CAS #

CHEMICAL FAMILY: Liquid Alkaline Cleaner

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS

PERCENT

Aqueous Solution of Alkaline Salts

SECTION III - PHYSICAL DATA

APPEARANCE & ODOR

SPECIFIC GRAVITY

BOILING POINT SOLUBILITY IN WATER Complete

Clear off-white liquid, mild odor

1.081

SECTION IV - FIRE & EXPLOSION HAZARD DATA

FLASH POINT: NONE

EXTINGUISHING MEDIA: NONE NECESSARY WATER BASED SOLUTION

SPECIAL FIRE FIGHTING PROCEDURES: NONE

UNUSUAL FIRE & EXPLOSION HAZARDS: NONE

SECTION V - HEALTH HAZARD

HEALTH HAZARD: MAY CAUSE IRRITATION TO THE SKIN.

EMERGENCY AND FIRST AID PROCEDURES: Flush eyes with fresh water immediately and seek medical attention.

SECTION VI - REACTIVITY

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR 🗐

SECTION VII - SPILL, LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: FLUSH WITH WATER INTO

APPROVED DISPOSAL SYSTEM.

TREAT AS ALKALINE DETERGENT DISPOSAL METHOD:

ACCORDANCE WITH LOCAL AND CORPORATE REGULATIONS.

STATE, AND FEDERAL REGULATIONS.

HAZARD RATE:G NEC OFEB 1 1994

DATE: 1/02/91

PACER TECHNOLOGY 9420 Santa Anita Avenue Rancho Cucamonga, CA 91730



For Chemical Emergencies Only: U.S. and Canada (800) 424-9300 Int'l & Wash D.C. (202) 483-7616 COLLECT Telephone Number for Information: (714) 987-0550

PRODUCTION IDENTIFICATION:

PACER TECH:

ELECTROBOND - EB 100

HAZARDOCS INCREDIENTS/IDENTITY INFORMATION:

Hazardous Components OSHA ACGIH Other Limits % (Common Names, Specific Chemical Identity) PEL TLV Recommended Optical #7085-85-0 ETHYL-2-CYANOACRYLATE NE NE 2-5ppm

HIVSTCAL/CHEMICAL CHARACTERISTICS:

Soiling Point: § 6mm Eq. 149 F Specific Gravity (H20 = 1): 1.05
Vapor Density (Air = 1): nil-NE Melting Point: NE
Vapor Pressure (mm Eq.): § 20 C. 1 Evaporation Rate (Butyl Acetate = 1): nil-NE

Solubility in Water:

Insoluble as material reacts to hardened mass for ron-hazardous waste.

Appearance and Odor:

Transparent water-white to straw colored liquid with stimulative odor.

FIRE AND EXPLOSION HAZARD DATA:

Flash Foint (Method Used): Flammable Limits: LEL: Non UEL: Non TCC = 176 F. NE NE

Extinguishing Media:

Flush with large amounts of water or dry chemical extinguisher.

Special Fire Fighting Procedures:

Names may be irritating if not burning and require air supply system with goggles while applying large amounts of water or dry chamical extinguisher.

Unusual Fire and Explosion Hazards:

None. Combustible requiring the above procedures.

Section (

THE SCHWERDTLE STAMP COMPANY

image makers since 1879

166 ELM STREET • P.O. BOX 1461 • BRIDGEPORT, CONNECTICUT 06601
FORWARDING AND RETURN POSTAGE GUARANTEED

MAR 3 1994

MATERIAL SAFETY DATA SHEET

This Material Safety Data Sheet is principally directed to managerial, safety, hygiene and medical personnel. The description of physical, chemical and toxicological properties and handling advice is based on experimental results and past experience. It is intended as a starting point for the development of health and safety procedures.

This Material Safety Data Sheet (MSDS) meets the requirements of the Federal OSHA Hazard Communications Standard (29 CFR 1910.1200).

SECTION I. PRODUCT IDENTIFICATION

MATERIAL NAME: SILICONE RUBBER COMPOUND C

CHEMICAL FAMILY: Formulated product

CHEMICAL NAME AND SYNONYMS: Not applicable FORMULA: Not applicable

COMPOSITION: The specific chemical identity of the ingredients of

this formulation is considered a trade secret.

SECTION II. HAZARDOUS INGREDIENTS

CAS NUMBER CHEMICAL NAME PERCENT TLV PEL

NONE

SECTION III. PHYSICAL DATA

BOILING POINT, degrees F: Not applicable

VAPOR PRESSURE, 68 deg. F mm. Hg: Nil

VAPOR DENSITY (Air = 1): Not applicable SOLUBILITY IN WATER: Negligible

APPEARANCE AND ODOR:

Brown, odorless solid

SPECIFIC GRAVITY (Water = 1): 1.70
PERCENT VOLATILE (by volume): Nil

PERCENT VOLATILE (by volume): Nil EVAPORATION RATE (Ether = 1): Nil

FLASH POINT, degrees F:

(Method used)

FLAMMABLE LIMITS IN AIR, % LEL:

Not applicable

Not applicable

UEL: Not applicable

SECTION IV. FIRE HAZARDS

FLASH POINT (method used):

AUTO-IGNITION:

FLAMMABILITY LIMITS IN AIR:

EXTINGUISHING MEDIA:

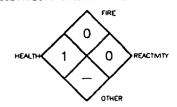
SPECIAL FIRE FIGHTING PROCEDURES:

Closed cup: above 212F/100C

N.D.

Lower: N.D. Upper: N.D. Water, foam, CO2, dry chem. Self-contained breathing





SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME AND ADDRESS:

SUNNEN PRODUCTS COMPANY 7910 Manchester Ave. St. Louis, MO 63143 U.S.A. CONTACT: EMERGENCY PHONE NO: APPROVED BY: TITLE: DATE: Chuck Korn 314-781-2105 Terry Heller

Manager, Materials R&D

July 4, 1992

TRADE NAME, COMMON NAME OR SPECIFICATION: Sunnen Honing Stones: A, J and C Abrasive (Example: K10-A57 or P28-C07), or AN, AHU, CR, EEU, EAU, EMN, EMU, EKN, EHN, EKU, EHU, EUA, EUG, HB, JN, JHU, JUA, JUG, KL, LBN, LG, LH, LJ, ML, PL, RY, RYY, SC, SL, SYY, SN, UL, XB, XHB and XSC Prefix (Exm: JHU-625), TS-125 & XB25. Also A, N, E, F, J, G, H and K Sunnen made abrasive for Non-Sunnen Machines (Example: K01-3-12-192-AC.) CHEMICAL FAMILY: Mixture. Vitrified or Superabrasive Honing Stone that may contain fillers and organic binders mounted on a zinc or zinc coated steel holder.

SECTION 2 INGREDIENTS/IDENTITY (PER 29 CFR 1910.1200(g))

CHEMICAL NAME OF COMPONENTS	CAS NO.	MAX Wt%	OSHA ZIA 8 HR TWA	OSHA Z1A STEL mg./cu.m.	ACGIH TWA	CARCINOGENIC
aluminum oxide (alundum)	1344-28-1	55	10 dust/5 respirable	NONE	10	N
aluminum (metal)	7429-90-5	5	15 dust/5 respirable	NONE	10	N
boron oxide (boron oxide)	1303-86-2	5	10 dust/5 respirable	NONE	10	N
calcium oxide (lime)	1305-78-8	5	5	NONE	2	N
copper (metal) as dust/mist	7440-50-8	5	1	NONE	1	N
copper (metal) as fume	7440-50-8	-	.1	NONE	0.2	N
fibrous glass (fiberglass) as dust	NONE	10	15 dust/5 respirable	NONE	10	N
fluorides (fluorides) as fluorine	NONE	5	.2	NONE	2.5	N
manganese (metal)	7439-96-5	1	5 dust/l fume	3 fume	5 dust/1 fume	: N
silicon carbide (crystolon)	409-21-2	55	10 dust/5 respirable	NONE	10	N
silica, fused (silicon dioxide)	60676-86-0	5	.1 respirable dust	NONE	0.1	N(1)
tin (metal) as inorganic except oxide	7440-31-5	5	2	NONE	2	ìŃ

THIS MIXTURE CONTAINS TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372. FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS. THE EXACT COMPOSITION OF THIS MATERIAL IS BEING WITHHELD AS A TRADE SECRET OF SUNNEN PRODUCTS COMPANY. (1) Airborne particles of respirable size of Crystalline Silica are known to the state of California to cause

These mixture ingredients are cited on the following lists:

Name	CAS	Citations
ALUMINUM OXIDE	1344-28-1	4,9,13,16,17
ALUMINUM	7429-90-5	4,5,8,9,10,11,12,13,14,15,17,18,21,22,23
BORON OXIDE	1303-86-2	2,4,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23
CALCIUM OXIDE	1305-78-8	2,4,7,9,10,13,16,17
COPPER	7440-50-8	2,4,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23
GLASS-FIBROUS/DUST	NONE	4,9,10,13,16,17
FLUORIDES (as F)	NONE	2,4,13,16,17
MANGANESE	7439-96-5	2,4,8,10,11,12,13,14,15,16,17,18,19,20,21,22,23
SILICON DIOXIDE	60676-86-0	2,4,9,10,11,12,13,14,15,16,17,18,20,21,22,23
SILICON CARBIDE	409-21-2	4,9,13,16,17,22
TIN	7440-31-5	2,4,9,10,11,12,13,15,16,17,18,21,22,23
ZINC	7440-66-6	8,9,10,13,18,21,22

1=IARC 2=OSHA 3=NTP 4=ACGIH 5=NFPA49 6=NFPA325M 7=DOT HMT 49CFR172.101 8=EPA SARA III 9=RTECS 10=MA RTK 11=AK RTK 12=CA RTK 13=FL RTK 14=IL RTK 15=ME RTK 16=MN RTK 17=NH RTK 18=NJ RTK 19=Cincinnati, OH RTK 20=Norwood, OH RTK 21=PA RTK 22=RI RTK 23=WV RTK

	NEPA DESIGNATION 704						
AZARD RATING	- HEALTH	1	•				
4=Extreme	•••••						
3=High	- FIRE	0	-				
2=Moderate							
1≕Slight	- REACTIVITY	0	•				
O=Insignificant							

SECTION 1 NAME AND PRODUCT

ADDRESS:

MANUFACTURER'S NAME: SUNNEN PRODUCTS COMPANY 7910 Manchester Ave.

CONTACT: Chuck Korn EMERGENCY PHONE NO: 314-781-2105

St. Louis, Mo. 63143

APPROVED BY: Terry Heller United States of America TITLE: Manager, Materials R/D

DATE: May 1, 1990

- SPECIFIC HAZARD NONE -

TRADE NAME, COMMON NAME OR SPECIFICATION:

Guide Shoe:

STEEL: UA-C, UA-CH, UB-C, UB-CH, UC-C, UC-CH, LA-C, LA-CH, LB-C, LB-CH, LC-CH, LC-CH,

VA-C, VA-CH, VB-C, VB-CH, PB-H, PC-H, PD-H, PE-H, PF-H.

BRONZE: UA-B, UB-B, UC-B, UC-B, UE-B, LA-B, LB-B, LC-B, VA-B, VB-B, WB-B, WC-B, WC-B, WE-B, WF-B,

WG-B, SC-B, SD-B, PB-B, PC-B, PD-B, PE-B, PF-B, PG-B, PH-B, CK-, CR- or CV-.

ZINC ALLOY: WB-D, WC-D, WD-D, WE-D, WF-D, WG-D.

Honing Mandrel: STEEL: LH, LJ, RYY, SYY, ML, ALR or AS, AH, BS, BH, CS, or CH suffix. (Example: K5-150CS)

BRONZE: AB, BB or CB, suffix. (Example: K5-150CB)

Truing Sleeve: STEEL: S or ST Prefix. (Example: S-120 or ST-744)

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

CHEMICAL AND (COMMON)	*0	COMPOSITIO	N	CAS	OSHA	OSHA	ACGIH CA	RCINOGENIC
NAME OF COMPONENTS	STEEL	BRONZE	ZINC	NO.	TWA	STEL	TWA	
			ALLOY		Z1-A	Z1-A		
					mg/cu m			
aluminum (metal)	<1	7-13	3-7	7429-90-5	Total Dust 15/Respirable 5	NONE	10	N
aromium (metal)	<5	<1	<1	7440-47-3	1	NONE	.5	N (1)
"cobalt (metal) as dust/fume	<1	<2	<1	7440-48-4	.05	NONE	.05	N
copper (metal) as fume	<1	70-90	<2	7440-50-8	-1	NONE	.2	N
copper (metal) as dust/mist					1.0	NONE	1	N
manganese (metal) as fume	<2	<4	<1	7439-96-5	1	3	5 dust/1 fu	me N
manganese (metal) as dust					OSHA Ceiling (dust) 5			
nickel (metal)	<1	<1	<1	7440-02-0	1	NONE	.05	Y
nickel (metal) as soluble com	pounds				.1	NONE	.05	Y
silicon (metal)	<1	<4	<1	7440-21-3	Total Dust 10/Respirable 5	NONE	5 dust	N

(1)1.A.R.C. & N.T.P. REPORT THAT ALL COMPOUNDS CONTAINING CHROMIUM ARE POTENTIALLY CARCINOGENIC. FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS. This mixture contains toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

These mixture ingredients are cited on the following lists:

NAME	CAS	CITATIONS
Aluminum	7429-90-5	4,5,8,10,11,12,13,14,15,17,18,21,22,23
Chromium	7440-47-3	1,2,3,4,8,10,11,12,13,14,15,16,17,18,19,20,21,22,23
Cobalt	7440-48-4	2,4,8,10,11,12,13,14,15,16,17,18,19,20,21,22,23
Copper	7440-50-8	2,4,8,10,11,12,13,14,15,16,17,18,19,20,21,22,23
Manganese	7439-96-5	2,4,8,10,11,12,13,14,15,16,17,18,19,20,21,22,23
Nickel	7440-02-0	1,2,3,4,5,7,8,10,11,12,13,14,15,16,17,18,19,20,21,22,23
Silicon	7440-21-3	16,17,21,22,23
Zinc	7440-66-6	8,9,10,13,18,21,22

1=IARC 2=OSHA 3=NTP 4=ACGIH 5=NFPA49 6=NFPA325M 7=DOT HMT 49CFR172.101 8=EPA SARA III 9=RTECS 10=MA RTK 11=AK RTK 12=CA RTK 13=FL RTK 14=IL RTK 15=ME RTK 16=MN RTK 17=NH RTK 18=NJ RTK 19=Cincinnati, Ohio RTK 20=Norwood, Ohio RTK .=PA RTK 22=RI RTK 23=WV RTK

111

May be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910, 1280 Standard must be consulted for specific requirements.

IDENTITY (As Used on Label and List)

RT-12, RT-28-3E, RT-36, RT-38-28, RT-38) RT-41, RT-42, RT-44, RT-53, RT-54, RT-59, RT-87-1, RT-425

SECTION I

Manufacturer"s Name: Scan-Pac Mfg., Inc.

Address:

9950 North Port Washington Road

Mequon, MI 53092

Emergency Telephone Number:

414 241-389

Telephone Number for information: 414 241-389(

Date Prepared: April 28, 1986

SECTION II - Hazardous Ingredients/Identity Information?*

Hazardous Compone	ente				• .
Common Name	Chemical Name	C.A.S. No.	OSHA PEL	ACGIH TLV	Other Limits Recommended
Fiberglass	Fibrous Glass	65997-17-3	15.0 mg/H'	10.0 mg/M'	3 x 10 6 fibers/M' (NIOSH)
Graphite	Graphite (Natural)	7782-42-5	15.DMppcf	2.5 mg/M³	NK/NA
Carbon Black	Carbon	13333-86-4	3.5 mg/H3	3.5 mg/H3	NK/NA
Autoclaved Lime	Lime, Dolomite, Hydrated	1305-76-8	N/A	5.0 mg/M³	* NK/NA
Mineral Fiber	Mineral Wool Fiber	65996-69-2	15.0mg/H³	10.0mg/H³	NK/NA

SECTION III - Physical / Chemical Characteristics

Boiling Point:

NAP

Specific Gravity: (H.D-1)

1.8 to 2.6

Vapor Pressure (mm Hg.):

NAP

Melting Point:

NK/NA

Vapor Density (Air - 1):

NAP

Evaporation Rate (Butly Acetate-1): 0

Solubility in Water:

NO .

Appearance and Ddor: various colors, including green, browns & blacks, rigid, hard & no odor

SECTION IV - Fire and Explosion Hazard Data

Flash Point (Method Used: #K/NA

Flammable limits: MK/NA

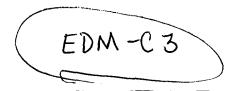
LEL NK/NA

1EL MK/NA

Extinguishing Media: Water,

Special Fire Fighting Procedures: NK/NA

Unusual Fire and Explosion Hazards: MK/NA



Unocal Corporation FEB 1 4 1994 1201 West 5th Street FEB 1 4 1994 Los Angeles, California 90017

Product Name: POCO GRAPHITE SYNTHETIC GRAPHITE - COPPER IMPREGNATED:GRADE Page 1
Product Code No: NONE Issue Date: 11/01/91
Status: FINAL

Responsible Party:

POCO GRAPHITE, INC. UNION OIL COMPANY OF CALIFORNIA 1601 SOUTH STATE STREET DECATUR, TEXAS 76234

CONTACT FOR FURTHER INFORMATION:
MSIS COORDINATOR, L.D. FIEL 817-627-2121, X-289

Transportation Emergencies: CHEMTREC (800) 424-9300 Cont. U.S. (202) 483-7616 (Collect) from Alaska & Hawaii Health Emergencies: LOS ANGELES POISON CONTROL CENTER (24 hrs) (800) 356-3129

PRODUCT IDENTIFICATION

PROFUCT NAME: POCO GRAPHITE SYNTHETIC GRAPHITE - COPPER IMPREGNATED: GRADE

GENERIC NAME: CRAPHITE CHEMICAL FAMILY: CARBON

DOT PROPER

SHIPPING NAME: NOT APPLICABLE

ID NUMBER: NONE

DOT HAZARD

CLASSIFICATION: NOT REGULATED

PRECAUTIONARY WARNING

AVOID CONTACT WITH EYES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. WASH THOROUGHLY AFTER HANDLING.

SECTION I - COMPONENTS	PERCENT	EXPOSURE	LIMIT UNITS	AGENCY	TYPE
HAL'ARDOUS COMPONENTS					
COPPER CAS #: 7440-50-8	40-50%	1.000 0.200 1.000 2.000 0.200 1.000 0.100 1.000	mg/m3 mg/m3 mg/m3 mg/m3 mg/m3 mg/m3 mg/m3 mg/m3 mg/m3	ACGIH ACGIH MSHA MSHA MSHA OSHA OSHA CAL OSHA CAL OSHA	TWA-T-DUST TWA-FUME TWA-T-DUST STEL-T-DUST TWA-FUME TWA-T-DUST TWA-T-DUST TWA-FUME TWA-T-DUST TWA-FUME
GRAPHITE (SYNTHETIC) CAS #: NONE	50-60%	10.000 10.000 5.000	mg/m3 mg/m3 mg/m3	ACGIH OSHA OSHA	TWA TWA-T-DUST TWA-R-DUST

NATIONAL FRICTION PRODUCTS

Division of Motion Control Industries, Inc.

TELEPHONE ENG FENERAL

1441 HOLLAND STREET . P.O. BOX 1557 . LOGANSPORT, INDIANA ANNT FA0 2187224591

No:225

6090K56-6

May be used to Comply with OSHA Resert Communication Standard 1910,1200 Date Prepared May 12,1990

Propered by E.L. Hesselbus Telephone: 219-753-4391

MATERIAL SAFETY DATA SHEET

Friction Material

HMIS RATING

- Fire Hazard
- 1 Health Hazard

REC'D FEB 23 1994

- 0 Reactivity
- Personal Protection

National Friction Products materials are a resin bonded product which do not contain asbestos. When used as intended, these products meet the OSHA definition of an article and is exempt from the Hazard Communication Standard. A potential for exposure to dust when rinding, drilling, milling, etc. exists and therefore all information contained within should be followed.

Materials listed on this data sheet are contained in these products. Exact percentages are proprietary and confidential and will not be disclosed other than as required in accordance with the regulations.

The data sheet is not part of any contract or sale. While the information and recommendations set forth herein are believed to be accurate, National Friction Products makes no warranty with respect there to and disclaims all liability from reliance thereon.

All applicable and aforementioned standards and specifics must be consulted for specific requirements, recommendations and controls

SECTION I - IDENTITY

Non asbestos friction materials - Identity found on box or product.

NF-101, NF-102, NF-114, NF-118, NF-119, NF-133 NF-143, NF-144, NF-250, NF-321, NF-325, NF-329, NF-332 NF-401, NF-405A, NF-409, NF-411A, NF-421, NF-500 NF-506,NF-508 NF-609, NF-610, NF-704, NF-705, NF-708, NF-712, NF-713, NF-809, NF-909, NF-910, NF-911, NF-912 NF-913 NF-914, NF-961, NF-963, NF-968, NF-968

NFORG

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Type	CAS	Hazard	OH	SA	HI	оѕн	AC	GIH C	ompo	nents	Wt. Upto
**Barimite	7727-43-7	Physical Irritant	10	mg /m³	5	mg /m³	10	mg /m³		MP/ CF	30%
**Brass	7740-50-8	Respiratory Irritant				-		•	1 1	ma\m ₃	10%
**Aluminum Oxide	1344-29-1	Respiratory Irritant	10	mg /m³	10	mg /m³	5	mg /m³	10	mg/m³	10%
Graphite/ Carbon/ Coke		Respiratory Irritant		Mg /m3		mg /m3		/m ³		mg/m³	3-62%
Glass Fibers	65997-17-3	Respiratory Irritant	5	mg i	3x10	fibe	rs/ m³		5 m3	mg/m³	25%
**Phenolic Resins	9003-35-4	Respiratory Irritant		-				·	5	mg/m³	338

The above components are each part of a resin bonded system. The product is formed into specified shapes. The composite of the listed chemical items has formed a chemically bound product which no longer necessarily exhibits the chemical properties of the above ingredients.

** Listed on Title III Section 313

SECTION III HEALTH HAZARD DATA

- A. TLV Non-asbestos containing friction materials are not currently regulated by OSHA, NIOSH, and ACGIH. When handled properly, the material does not present a known health risk. Necessary precautions should be practiced to avoid creating uncontrolled dust when grinding, drilling or other machine work.
- B. Carcinogenicity NTP-No 1ARC-No OSHA No
- C. Signs and symptoms of exposure to dust Itching may develop on exposed skin. Dryness of the threat and shortness of breath indicates overexposure to the generated dust.
- D. Medical conditions generally effected by exposure long term overexposure to dust may lead to pulmonary problems.
- E. Emergency and First Aid Procedures Should not be required from reasonable handling of product.
- F. Hazardous Ingredient Health Hazard aluminum oxide, barium sulfate, graphites/carbon/cokes, glass fibers, brass, and phenolic resins, dust can cause skin, eye, respiratory, and physical irritation. Prolonged overexposure to the dust perhaps may lead to pneumoconiosis, fibrosis, and pulmonary problems.

	[H] [E] (e)	(5 U V)	<u> </u>	il Cars	exhill		
PRODUCT NAME SP-350 (Ae:	1 13 1	<u>n i too.</u>	14:17	S003262			
MANUFACTURED BY: CRC CHEMICA		<i>0</i> ≥ 1500	Phone (215) 674-4300				
JE TOUIS DRIVE, WARMINSTER, PA.	. 18974	NC JUA	11.				
. INGREDIENTS	CAS#	ACGI TLV	_	Other Limits	%		
Metal Alkyl Aryl Sulfona	te NA	NA	NA	5ma/M ³	3 42		
Inhibited Paraffinic Oil	NA	NA	NA	(Mist)	<u>}</u>		
Mineral Spirits	64742-47-8	NA	NA	200	26		
1,1,1 Trichloroethane	71-55-6	350	350		29		
Carbon dioxide	124-38-9	5000	NΛ		3		
Roth the inhibited parag	finic oil and the a.	kyl a	rvl sulfor	nate are	not		
hazardous by OSHA standa	rds.	ļ		 	ļ		
		<u> </u>	· / ·				
Note: The carbon dioxic	e functions as the p	ropel	lent for	this aero	sol		
package. Pressure = 85	psig at 70°F.				-		
. PHYSICAL DATA (Without Physical Data)	out propellent)				<u>. · · · · · · · · · · · · · · · · · · ·</u>		
	Vapor Pressure NA		% Volatile	58			
ing Point 165°F (Initial)	Evaporation Rate NA						
rec Point NA	Vapor Density Heavier 1	than a	ir.				
ppearance and Odor Amber tran	<u>ıslucent liquid - ple</u>	<u>easant</u>	odor.				
olublity <u>Negligible in wa</u>	ter,			<u> </u>			
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FIRE AND EXPLOSION DAT	<u>A</u>						
ashpoint 140° Method COC	· · · · · · · · · · · · · · · · · · ·		Flammable Li	mits <u>ኮ</u> ለ			
xtinguishing Media Dry chemica				UEL			
nusual Hazards Aerosol cans	may explode at temper	eratur	es above :	130°F.	·		
. REACTIVITY AND STABILIT	Υ						
tability Stable							
	Chermal) - Hydrogen o	chlori		n monoxid y phosger			
laterials to avoid Strong oxidi	zers		possini	A buozder	<u>.</u>		
				· · · · · · · · · · · · · · · · · · ·	,		
. PROTECTION INFORMATIO	· · · · · · · · · · · · · · · · · · ·						
entilation To maintain vapor							
spiratory Self contained h			· · · · · · · · · · · · · · · · · · ·	above TI	LV.		
Solvent resistant		ety ao					
ther Protective Equipment NOT r	normally required for	r aero	sol packad	ges.			
	<u>_</u>						

INDUSTRIAL HYGIENE, TOXICULUGY, AND MATERIAL #0130 | IEXALU

NOTE: NO REPRESENTATION IS MADE AS TO THE ACCURACY OF THE INFORMATION HEREIN. SEE PAGE 5 FOR CONDITIONS UNDER WHICH DATA ARE FURNISHED.

Trade Name and Synd	
	DOF COMPOUND L
Manufacturer's Name	Emergency Telephone Nc.
Texaco Inc	(914) 831-3400 ext. 406
Address	2 NY 12500
	Beacon, NY 12508
Rust Proofing	r Family or Description
THIS PRODUCT IS C	1
HAZARDOU	S BY DEFINITION NO.(S) ON ATTACHED EXPLANATION SHEETS
WARNING STATE	EMENT: TION: COMBUSTIBLE
· Cho	TON, COMBOSTIBLE
· 	
OCCUPATIONAL	CONTROL PROCEDURES
	/T - \
Protective Equipment Eyes:	(type) Chemical type goggles or face shield optional.
_,,	diemical type goggies of last shield operand.
	•
Skin:	Exposed employes should exercise reasonable personal cleanliness;
	this includes cleansing exposed skin areas several times daily
,	with soap and water, and laundering or dry cleaning soiled work
	clothing at least weekly.
Inhalation:	Supplied air respiratory protection for cleaning large spills or
	upon entry into tanks, vessels, or other confined spaces.
Ventilation:	
ventilation:	Normal
Permissible Concentra	tions:
Air:	TLV for distillate portions = 100 ppm (stoddard solvent); 5 mg/
	cu. meter for mineral oil mist; averaged over 8 hr daily exposure
EMERGENCY ANI	FIRST AID PROCEDURES
First Aid	
Eyes:	As with most foreign materials, should eye contact occur, flush
	eyes with plenty of water.
CLI	
Skin:	None considered necessary.
Ingestion:	D NOT ' 1 'A' A ' A'
ingestion:	Do NOT induce vomiting. Aspiration may cause chemical pneumonia.
Inhalation:	Should symptoms noted under physiological effects occur, remove
	to fresh air. If not breathing, apply artificial respiration.
	and and an analytic state of the state of th
Other Instructions:	None.

-1

IEXACU

	a Significant	Hazard					%	
	a mixture of st (cyclparaffins) a components are	traight and branched and alkyl aromatic hy aliphatic hydrocarbo 20% by volume aro	r to Stoddard Solven chain paraffins, nap ydrocarbons. The pr ins ranging from C-! matic hydrocarbons.	hthenes incipal 5 to C-16				
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DITIONAL COM	WENTS						*****	
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DITIONAL COMP ACO INTENDS TO CO ATE OF MICHIGAN CRITIC Critical materials prese XACO INC. DOES NOT RI	OMPLY FULLY ICAL MATERIALS	ACT (REVISED 198	<mark>3)</mark> Berger Sung Fried Buch	we en general and a second	er i viere ja	erran nag		
ACO INTENDS TO CO ATE OF MICHIGAN CRITI- critical materials prese	OMPLY FULLY ICAL MATERIALS	ACT (REVISED 198	<mark>3)</mark> Berger Sung Fried Buch	we en general and a second	er i viere ja	erran nag		
ACO INTENDS TO CO ATE OF MICHIGAN CRITI- critical materials prese	OMPLY FULLY ICAL MATERIALS	ACT (REVISED 198	<mark>3)</mark> Berger Sung Fried Buch	we en general and a second	er i viere ga	erran nag		
ACO INTENDS TO CO ATE OF MICHIGAN CRITI- critical materials prese	OMPLY FULLY ICAL MATERIALS	ACT (REVISED 198	<mark>3)</mark> Berger Sung Fried Buch	we en general and a second	er i viere ga	erran nag		
ACO INTENDS TO CO ATE OF MICHIGAN CRITI- critical materials prese	OMPLY FULLY ICAL MATERIALS	ACT (REVISED 198	<mark>3)</mark> Berger Sung Fried Buch	we en general and a second	er i viere ga	erran nag		
ACO INTENDS TO CO ATE OF MICHIGAN CRITI- critical materials prese KACO INC. DOES NOT RI	OMPLY FULLY ICAL MATERIALS ENT	S ACT (REVISED 198:	3) TING THE INTERIOR with respect to this	OF POTABLE WA	ATER TANKS.	k his		
ACO INTENDS TO CO ATE OF MICHIGAN CRITI- critical materials prese XACO INC. DOES NOT RI	OMPLY FULLY ICAL MATERIALS ENT. IECOMMEND THIS or effect of an priate governmen	y law or regulation tagency. Texaco	3) TING THE INTERIOR with respect to this	of POTABLE Was product, user to furnish advict	Should consu	It his atters.		

MSDS Identity number: 1#2#3

NEPA HAZARD RATING

HEALTH

0

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MSDS Revision date : November 14, 1991

IDENTIFICATION DIFFACE

FIRE BEAGTIVITY

Signature of Prepared

SPECIFIC HAZARD COR

Section 1 - PRODUCT INFORMATION

Manufacturor's Namo:

Michlin Diazo Products Corp.

Phone No:

(313) 846-5700

10501 Haggerty Stroet

Dearborn, MI 48126

OHEM-TEL 24 Hr. Emergency No. (800) 255-3924

Common Name.

AQUA AMMONIA

Chemical Name: PRODUCT USE : AMMONIUM HYDROXIDE SOLUTION

Olazo developer, fertilizers, household cleaners

Section II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

INGREDIENTS	<u>OSHA</u>	<u>ACGIH</u>	C.A.S. No.	PERCENT
Number 1 Strength AMMONIA GAS IN WATER WATER Non-Hazardous Corrosive Inhi	35(STEL) NONE bitor	35(STEL) NONE	1336-21-6 7732-18-5 Mixture	29.4% 70.6% Trace
Number 2 Strength AMMONIA GAS IN WATER WATER Non-Hazardous Corrosive Inhi	35(STEL) NONE bitor	35(STEL) NONE	1336-21-6 7732-18-5 Mixture	25.5% 74.5% Trace
Number 3 Strength AMMONIA GAS IN WATER WATER Non-Hazardous Corrosive Inhi	35(STEL) NONE bitor	35(STEL) NONE	1336-21-6 7732-18-5 Mixture	17.8% 82.2% Trace

Section III - PHYSICAL/CHEMICAL CHARACTERISTICS

Physical State:

Liquid

Odor threshold

<= 5 ppm

Appearance/Odor:

Colorless liquid with pungent irritating odor.

Specific Gravity(H2O=1):

0.8974 @ 15.5 Degree C

Boiling Point (Dog. C): 27 C

Vapor Pressure (MM Hg) ; 550 @ 20 Deg. C.

Evaporation Rate (Water=1):

No Data

Vapor Pressure:

475 MMHg @ 15.5 Degree C

Percent volatile by volume

No Data

Solubility in water:

Complete

Freezing Point:

Approximately -75 Degree C

11 - 13

Sensitivity to Mechanical Impact: N/A

Rate of Burning

Will not burn

REC'D FEB 23 1994



LIQUID CARBONIC INDUSTRIES

810 JORIE BLVD. • OAK BROOK, IL 60521-2216 • 708 572-7500

OXYGEN, COMPRESSED

DOT: UN 1072

HAZ.CL.: Division 2.2

LABELS: Nonflammable Gas. Oxidizer

October 1991

24 Hour Emergency Phone Numbers: (504) 673-8831; CHEMTREC (800) 424-9300

SECTION I--PRODUCT IDENTIFICATION

CHEMICAL NAME:

0xygen

COMMON NAME AND SYNONYMS: Oxygen, Compressed (D.O.T.); Gaseous Oxygen, GOX;

Oxygen Gas

CHEMICAL FAMILY:

Oxidizer

FORMULA:

SECTION II--HAZARDOUS INGREDIENTS

MATERIAL

VOLUME %

CAS NO.

1991-1992 ACGIH TLV UNITS

0xygen

99.5+

7782-44-7

OSHA 1989 TWA - None Listed

SECTION III--PHYSICAL DATA

BOILING POINT (°F.):

-297

SPECIFIC GRAVITY (H₂0=1): N/A (Gas)

VAPOR PRESSURE:

@ 70°F *

% VOLATILE BY VOLUME:

N/A (Gas)

VAPOR DENSITY (AIR=1): @ $70^{\circ}F = 1.11$

EVAPORATION RATE (BUTYL ACETATE=1): N/A

SOLUBILITY IN WATER:

Slightly

(Gas)

APPEARANCE AND ODOR:

Colorless, odorless gas

* Above critical temperature

SECTION IV--FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): N/A

FLAMMABLE LIMITS:

LEL N/A

UEL N/A

EXTINGUISHING MEDIA:

Fires with oxygen as the oxidizer should be fought with copious quantities of

SPECIAL FIRE FIGHTING PROCEDURES: If possible, stop the source of oxygen which is supporting the fire. Use water spray to cool surrounding containers.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vigorously accelerates combustion. Many compounds which are not flammable in air may burn in pure oxygen. If cylinders are involved in a fire, safely relocate or keep cool with water spray.

SECTION V--HEALTH HAZARD DATA

No

Route(s) of Entry: Carcinogenicity:

Inhalation?

NTP?

Yes Skin?

IARC Monographs?

No

No

Ingestion?

OSHA?

No No

EFFECTS OF OVEREXPOSURE:

Inhalation: Oxygen is the vital element in the atmosphere in which we live and breathe. The atmosphere contains approximately 21 molar % oxygen. Breathing higher concentrations could lead to hyperoxia and pneumonia or could present a risk of inflammation of organic matter in the body.

Persons in ill health where such illness would be aggravated by exposure to higher than normal levels of oxygen should not be allowed to work with or handle this product.

(Continued on Supplemental Sheet)

REC'D FEB 01 1994



LIQUID CARBONIC INDUSTRIES

810 JORIE BLVD. • OAK BROOK, IL 60521-2216 • 708 572-7500

NITROGEN, COMPRESSED

UN 1066 DOT:

HAZ.CL.: Division 2.2

Nonflammable Gas LABEL:

October 1991

24 Hour Emergency Phone Numbers: (504) 673-8831; CHEMTREC (800) 424-9300

SECTION I--PRODUCT IDENTIFICATION

CHEMICAL NAME:

CHEMICAL FAMILY:

Nitrogen

COMMON NAME AND SYNONYMS: Nitrogen or Nitrogen, Compressed (DOT)

Inert Gas

FORMULA: No

SECTION II--HAZARDOUS INGREDIENTS

MATERIAL

VOLUME %

CAS NO.

1991-1992 ACGIH TLV UNITS

Nitrogen

99.9+

7727-37-9

Simple Asphyxiant*

OSHA 1989 TWA - None Listed

*Oxygen levels should be maintained at greater than 18 molar % at normal atmospheric pressure ($p0_2>135$ torr).

SECTION III--PHYSICAL DATA

BOILING POINT (°F.):

-320.5

SPECIFIC GRAVITY (H₂0=1):

N/A (Gas)

VAPOR PRESSURE:

VAPOR DENSITY (AIR=1): $@70^{\circ}F = 0.97$

% VOLATILE BY VOLUME:

N/A (Gas)

SOLUBILITY IN WATER:

Very slightly

EVAPORATION RATE (BUTYL ACETATE=1): N/A

(Gas)

APPEARANCE AND ODOR:

Colorless, odorless gas

* Above the critical temperature of -233°F

SECTION IV--FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED):

FLAMMABLE LIMITS: N/A

LEL N/A UEL

EXTINGUISHING MEDIA:

Nonflammable, Inert Gas

N/A

SPECIAL FIRE FIGHTING PROCEDURES: N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If cylinders are involved in a fire, safely relocate or keep cool with water spray.

SECTION V--HEALTH HAZARD DATA

Route(s) of Entry: Carcinogenicity:

Inhalation?

NTP?

Yes No

Skin? IARC Monographs?

No No Ingestion?

OSHA?

No No

EFFECTS OF OVEREXPOSURE:

Inhalation: Overexposure to high concentrations so as to exclude an adequate supply of oxygen to the lungs causes dizziness, drowsiness and eventual unconsciousness. Persons in ill health where such illness would be aggravated by exposure to nitrogen should not be allowed to work with or handle this product.

EMERGENCY AND FIRST AID PROCEDURES:

If Inhaled: Remove to fresh air. If unconscious or breathing is difficult, administer artificial respiration with supplemental oxygen. Keep warm and at rest. Caution when entering contaminated areas to ventilate to acceptable oxygen levels. See CGA Bulletin SB-2 "Oxygen Deficient Atmospheres."

REC'D FEB 01 1994

No. 199



LIQUID CARBONIC INDUSTRIES

810 JORIE BLVD. • OAK BROOK, IL 60521-2216 • 708 572-7500

ARGON, Compressed

UN 1006

HAZ.CL.: Division 2.2

LABEL: Nonflammable Gas

May 1991

REC'D OCT 1 3 1994

24 Hour Emergency Phone Numbers: (504) 673-8831; CHEMTREC (800) 424-9300 SECTION I--PRODUCT IDENTIFICATION

CHEMICAL NAME:

Argon

COMMON NAME AND SYNONYMS: Argon or Argon, Compressed (DOT)

CHEMICAL FAMILY:

Rare or Inert Gas FORMULA: Ar

SECTION II--HAZARDOUS INGREDIENTS

MATERIAL

VOLUME %

CAS NO.

1990-1991 ACGIH TLV UNITS

Argon

99.9+

7440-37-1

Simple Asphyxiant

OSHA 1989 TWA - None Listed

SECTION III--PHYSICAL DATA

BOILING POINT (°F.):

-303

SPECIFIC GRAVITY (H₂0=1):

N/A (Gas)

VAPOR PRESSURE:

% VOLATILE BY VOLUME:

N/A (Gas)

VAPOR DENSITY (AIR=1): $@ 70^{\circ}F = 1.38$ SOLUBILITY IN WATER:

Very slightly

EVAPORATION RATE (BUTYL ACETATE=1): N/A

(Gas)

APPEARANCE AND ODOR: Colorless, odorless gas

* Above the critical temperature of -188°F

SECTION IV--FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): N/A

FLAMMABLE LIMITS:

UEL LEL

EXTINGUISHING MEDIA:

Nonflammable, Inert Gas

N/A N/A

SPECIAL FIRE FIGHTING PROCEDURES: N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If cylinders are involved in a fire, safely relocate or keep cool with water spray.

SECTION V--HEALTH HAZARD DATA

No

Route(s) of Entry: Carcinogenicity:

Inhalation? Yes

Skin?

IARC Monographs?

No Ingestion? No OSHA?

No No

EFFECTS OF OVEREXPOSURE:

Inhalation: Overexposure to high concentrations so as to exclude an adequate supply of oxygen to the lungs causes dizziness, drowsiness and eventual unconsciousness. Persons in ill health where such illness would be aggravated by exposure to argon should not be allowed to work with or handle this product.

EMERGENCY AND FIRST AID PROCEDURES:

If Inhaled: Remove to fresh air. If unconscious or breathing is difficult, administer artificial respiration with supplemental oxygen. Keep warm and at rest. Caution when entering contaminated areas to ventilate to acceptable oxygen levels. See CGA Bulletin SB-2 "Oxygen Deficient Atmospheres."



LIQUID CARBONIC INDUSTRIES

810 JORIE BLVD. • OAK BROOK, IL 60521-2216 • 708 572-7500

HYDROGEN, COMPRESSED

DOT: UN 1049

Division 2.1 HAZ.CL.:

LABEL: Flammable Gas

September 1991

24 Hour Emergency Phone Numbers: (504) 673-8831; CHEMTREC (800) 424-9300

SECTION I--PRODUCT IDENTIFICATION

CHEMICAL NAME:

Hydrogen

COMMON NAME AND SYNONYMS: Hydrogen, Compressed (D.O.T.); Normal Hydrogen;

Gaseous Hydrogen; Water Gas

CHEMICAL FAMILY:

Flammable Inorganic Gas

FORMULA: Н2

SECTION II--HAZARDOUS INGREDIENTS

MATERIAL Hydrogen VOLUME %

CAS NO.

1991-1992 ACGIH TLV UNITS

99.9+

1333-74-0 Simple Asphyxiant *

OSHA 1989 TWA - None Listed

* Oxygen levels should be maintained at greater than 18 molar % at normal atmospheric pressure (p02>135 torr).

SECTION III--PHYSICAL DATA

BOILING POINT (°F.):

VAPOR PRESSURE:

-423@ 70°F *

SPECIFIC GRAVITY (H₂0=1): N/A (Gas) % VOLATILE BY VOLUME:

N/A (Gas)

VAPOR DENSITY (AIR=1): @70°F = .069

EVAPORATION RATE (BUTYL ACETATE=1): N/A

SOLUBILITY IN WATER: APPEARANCE AND ODOR:

Very Slightly

Colorless, odorless gas

* Above the critical temperature

SECTION IV--FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): N/A (Gas)

FLAMMABLE LIMITS:

LEL

UEL

EXTINGUISHING MEDIA: Water, carbon dioxide, dry chemical

4.0%

74.5%

SPECIAL FIRE FIGHTING PROCEDURES:

If possible (safely) stop the flow of burning hydrogen. Cool surrounding con-

tainers with water spray. Hydrogen burns with an almost invisible flame of

No

No

UNUSUAL FIRE AND EXPLOSION HAZARDS: Hydrogen is very light and rises very rapidly in air. Should a hydrogen fire be extinguished and the flow of gas continue, increase ventilation to prevent an explosion hazard, particularly in the upper portions of buildings or sheds where the gas might "collect."

SECTION V--HEALTH HAZARD DATA

Route(s) of Entry:

Carcinogenicity:

Inhalation? Yes

NTP?

No

Skin? IARC Monographs? Ingestion?

OSHA?

No No

EFFECTS OF OVEREXPOSURE:

relatively low radiation.

Inhalation: High concentrations of hydrogen so as to exclude an adequate supply of oxygen to the lungs causes dizziness, deeper breathing due to air hunger, possible nausea and eventual unconsciousness. Hydrogen is inactive biologically and essentially nontoxic; therefore, the major property is the exclusion of an adequate supply of oxygen to the lungs. Persons in ill health where such illness would be aggravated by exposure to hydrogen should not be allowed to work with or handle this product.

(Continued on Supplemental Sheet)

RFC'D FFB 01 1994

No. 170

CLOROX	
The Cloro 7200 Johns Pleasanton Tel. (415) 84	

Material Safety Data Sheet

CLOROX-KMIS

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IX Physical Data	VII Reactivity Data	724	owether to ownil source who make the or the lact own of the presents to the product are or the lact own of the cartrops list. Nother head lists the "Tim wayes design. The fraisable from thats formed own. The fraisable from thats formed own. V Special Precautions	III nazargous ingredients Contains the Cont	CAS PO. 1/4 PTECS PO. 1/4 Emergency Procedure Extity par Searcier Call your local paten certer Actly Sourcia Paten Certer (20) 377-1014

STID, 10174, 10175

MATERIAL SAFETY DATA

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SECTION POINT:	ALL T	Save and temporary	
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Controls:	1) I.65 & 2006	DOM: No STILL NITH RESERVENT PRIESTAL AND COLLECT	TESTAL AND COLLECT.
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MATERIAL SAFETY DATA

MSDS CODE: 20280

Dow Consumer Products Inc. caste Orreson • P O Box 364 • Greenville, SC 29002-0364 0

ACE # Illian ACE# INCOL

4 - Extreme
3 - High
2 - Moderate Textelry
1 - Slight
0 - Insuperfearet HAZARO RATING 24 HOUR EVERGENCY ASSISTANCE Texize 803-963-4261

MATERIAL IDENT SICATION

THAT MAKE: Fantastic All Purpose Cleaner STNONTMS:

Textze Spray Cleaner Fantastik Spray Cleaner

CYS NO:

DOT EAZARD CLASS/I.D. NO:

Fone

DOT PROPER SHIPPING MAKE:

None

CHECICAL FORWILA: Mixture

DOL LYBETTAC:

U.S. SUBFACE FREIGHT CLASSIFICATION: Cleaning Compound, Liquid NOI

Surface Active Agents 2-butoxyethanol Alkaline Builders & Dye HATERIAL CAS NUMBER 111-76-2 1: 5 \$189 It 1 Not Zetablished lt 5 Not Established ILA (DNIIS) 25 ppm (skin) 75 ppm SIEL BAZARD DATA **ACCIII** P S S **ACGIH**

PRECAUTIONARY STATEMENTS

Rinse thoroughly if sprayed in eyes

PHYSICAL DATA

BOILING POINT, 760 mm Eg: about 100°C VAPOR PRESSURE at 20°C STUBBLIST IN MATER: VAPOR DENSITY (#10°1): 1 EVAPORATION RATE (1 VOLATILES BY VOLUME @ 70°F, X: Negligible pH: 12.3 APPEARANCE AND ODOR: A clear light blue liquid with buryl odor. about 100°C

VAPOR PRESSURE at 20°C:
SOLUBILITY IN WATER: Co
EVAPORATION RATE (Water

Complete

17.5 mm Eg

EYE PROTECTION: Safety glasses are helpful.
OTHER PROTECTIVE MEASURES:

guidelines and notify treatment plant in case of large spills.

MASTE DISPOSAL METHOD: Rings empty container before discarding in trash collection. Product is biodegradable in the environment but may be toxic to fish. Small amounts into locally approved sevage treatment plants. Follow local effluent pretreatment

WASTE DISPOSAL METHOD:

VENTILIATION: NOTHAL PROTECTIVE GLOVES: N. EYE PROTECTION: Saf

RESPIRATORY PROTECTION:

Not required

SPECIAL PROTECTION INFORMATION

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: None ICC EXTINGUISHING MEDIA: E

FLACMABLE LIMITS IN AIR:

pe Lel

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SPECIAL FIRE FIGHTING PROCEDURES:

DWOSUAL FIRE AND EXPLOSION HAZARDS:

E

gil o proster them, is a least than, ca o . Ast improducts abbest on the EPA TSCA temporary temporary, no o not expectable

MATERIAL NAME: MSDS CODE:

MATERIAL SAFETY DATA

Fantastik® 20280

BAZARD DATA: Acute LD_Q in rata: Greater than 30 g/kg - Not toxic. Acute Inhalatio Toxicity in rata: Classed as not toxic. Acute Dermal Toxicity on rabbits: Classed as not toxic. Primary Skin Irritation on rabbits: Not an irritant. Eye Irritation on rabbits: Not an irritant. HEALTH HAZARD INFORMATION

Acute Inhalation

1994

21

Prolonged contact with skin or eyes may cause transient irritation.

EMERGENCY AND FIRST AID PROCEDURES:

Rinse eyes with water if contact occurs.

*Tested to CPSC requirements. Contains no listed carcinogens.

E

STABILLIT: REACTIVITY DATA Stable CONDITIONS TO AVOID:

INCOMPATIBILITY:

HAZARDOUS DECOMPOSITION PRODUCTS:

HAZARDOUS POLYMERIZATION:

None known

SPILL OF LEAK PROCEDURES
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Small spills: Absorb and vips up or rinse away with water. Large spills: Dike far ahead of spills and collect for later disposal.

CONDITIONS TO AVOID: None known

0

V NO

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HAMPLING AND STORING:

If frozen will return to original condition if shaken after thaving.

OTHER PRECAUTIONS:

Do not spray directly into electrical outlets. Not recommended for use on non-urethans

PREPARED BY: Texize Division - Dow Consumer Products Inc.

Research Service Group

73, 361 (Fee, 367)

DATE: 9/1/87

Ñ MATERIAL CARRIS DATA クロココイ

FO 2	CHEMIC	P CT			ACULES FILE
		AND SYNONYMS			ES (Approximately)
C103180	Terpene alcohol	CHEMICAL NAME Tempineol (mixed ischers) AND SYNONYMS Pine oil	I. PRODUCT IDENTIFICATION	عوال الرامال يحترما	WIA I COIAC OAFEI I DAIA OHEE
MOLECINES	CAS NO.	REGULAR TELEPHONE NO. 301-575-5000*		101751, 11958, 10295 10294 AGE 1 of 2	THE FAIR CSHA-29 CATE 7/6/81

	•	
Not established	C	Terpene alcohols
TIV-TWA VALUES	×	МАТЕЛІАЦ
	,	II. HAZARDOUS INGREDIENTS
		AND SYNONYMS EERCOD PINE OIL

			,		
Water-white oily Mould: distinct timelike ology	SOLUBILITY IN WATER,	VAPOR DENSITY (AIR-1) 5.3	VAPOR PRESSURE @ 20°C <1 mm Eg	DISTILLATION PANGE	III. PHYS
Pale yellow to near	Slight	5.3	11 11	5% 206°C(403°F)	III. PHYSICAL DATA
Ž	(BUTYL ACETATE -1)	PERCENT VOLATILE BY VOLUME (%)	SPECIFIC GRAVITY 0.933 Typical	FREEZING POINT	
N.A.	(1	100	10.933 کہادھا	0.0(32.1)	•

IV. FIRE AND EXPLUSION HACAND DAIA	APLUSION HE	CAND DATA				
FLASH POINT 66"C(150"F) TCC		AUTOIGNITION Not deta-dand	200		2	
		70.000	300	666	Ė	
 (TEST METHOD)	•	TEMPERATURE				
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TEAR SABOR CINETO IN ALT	LOWER Not determined	eremined			, ,	ביים ביים ביים ביים ביים
PERCENT BY VOLUME					Ċ	
באייוטרוויפיווים וובחוז ליים ב						
Extinguishing Media: hater nog, load, dry chemical, carbon dioxide.	E, roam, dry	chemical, car	č	dicxide.		

SPECIAL FIRE-FIGHTING FROCEDURES: Cool containers with water if exposed ő fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

NOTES: NA - NOT APPLICABLE

EIRCO PINE OIL is registered with the Pesticide Division of the Environmental Frotection Agency under EPA Registration Number 891-175.

PRECAUTIONARY LABELING: KARNING! KIEF OUT OF REACH OF CHILDREN.

EARLY IT SWALLDWED. If swellowed, do not induce wondiing but call a physician.

Vondiing may be harmful. Keep out of eyes. May cause eye demage or skin irritation.

If contact with eyes occurs, flush with water impediately. Get medical attention.

Avoid contamination of food.

We construct that continue under which this intersition and our products of the products of other manufactures in continues to the receiver and the section of the section

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1. California Commission

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- IX, SPECIAL P	PROTECTIVE GLOVES: Solvent-resistant rubber	(GENERAL)	ΙŭΙ	RESPIRATORY PROTECTION NIOS	VIII. SPECIAL	WASTEDISPOSAL METHOD: Incin Federal regulations.	STEPS TO BETAKEN IF MATERIAL IS RE Spills to tetal saltage tank.	VII. SPILL OR	POLYMERIZATION WILL NOT OCCUR	HAZARDOUS DECOMPOSITION PRODUCTS:	INCOMPATIBILITY (MATERIALS TO AVOID):	STABILTY CONDITIONS TO AVOID:	VI. REACTIVITY		iration if neces	STINE Remove rictim from contaction from conta	SENCY AND FIRST AID PI	EFFECTS OF OVEREXPOSURE: Irra	THRESHOLD LIMIT VALUE: Tot esti	V. HEALTH HAZARD	SDS . OR Oldb
	sistent rubber	Recommended	•	NIOSE-approved air-line breathing apparatus concentrations.	SPECIAL PROTECTION INFORMATION	Incinerate. Mapose of in acco	LEASED OR SPHIED: Remove Absorb small spills w	SPILL OR LEAK PROCEDURES	CONDITIONS TO AVOID:	Burning liberates	void): Strong oxidizers.	TO AVOID: May be susceptible	DATA	·	Call physician.	wesh with scap		Irritating to skin and micous i	esteblished	ARD DATA	DATE 7/8/81 ·
	EYE PROTECTION:	OTHER	SPECIAL	ing appar	2	dith asceptosse	sources of th savdust		Not	00, 00 ₂ , end		ទ				id veter.		micous membranes.			
	CTION: Checical splash go	•		arus in high wapor		th local, state, and	f ignition. Pump large t or clean sand.		epplicable	id sucke.		Specifications bearing.) N	ov		Edd water.	99	Inheletion can cause,			PAGE 2 0 . 2

REC'D JUL 1 1 1994

JANI-SERV ITEM #CA053A

Material Safety Data Sheet

y be used to comply with USHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

JANI-SERV MSDS #70

U.S. Department of Labor

Occupational Safety and Health Administration (Non-Mandatory Form)
Form Approved



consulted for specific requirements. OMB No. 1218-0072 IDENTITY (As Used on Label and List) Note: Blank spaces are not permitted. If any item is not applicable, or no URINAL SENTRY CLEANER BLOCK information is available, the space must be marked to indicate that, Section I Manufacturer's Name Emergency Telephone Number (419) 531-9741 Telephone Number for Information (419) 531-9741 PRODUCTS INC. Date Prepared July 5, 1989 Signature of Preparer (optional) Section II — Hazardous Ingredients/Identity Information Other Limits Hazardous Components (Specific Chemical Identity; Common Name(s)) OSHA PEL ACGIH TLV Recommended % (optional 1303-96-4 N/A N/A N/A Borax CAS N/A N/A N/A Urea N/A N/A N/A Versene Quaternary CAS 139-07-1 N/A N/A N/A N/A N/A N/A een Apple Fragrance N/A N/A N/A Blue Dye TRADE SECRET N/A Surfactant - Non Ionic N/A N/A CAS 9004-99-3 N/A N/A CAS 7732-18-5 N/A Water N/A N/A N/A CAS 25322-68-3 Polyglycol ** CAS numbers are not available for fragrances since they are proprietary mixtures from The name of the firm supplying a specific fragrance is suppliers to Fresh Products. available on request. Section III - Physical/Chemical Characteristics **Boiling Point** Specific Gravity (H2O = 1) 1.18 N/A Vapor Pressure (mm Hg.) Melting Point 140°F N/A Vapor Density (AIR = 1) Evaporation Rate unknown N/A (Butyl Acetate = 1) Solubility in Water Completely soluble Appearance and Odor Solid block Section IV — Fire and Explosion Hazard Data LEL UEL Flash Point (Method Used) Flammable Limits unknown N/A unknown Exunquishing Media Water fog - foam - CO2 - dry chemical Special Fire Fighting Procedures Firefighters should be equipped with self-contained breathing

apparatus and turn-out gear

Unusual Fire and Explosion Hazards

MAILHIAL SAFETY DATA SHEET

AMEREX CORPORATION

P. O. BOX 81, TRUSSVILLE, AL 35173-0081 RESPONSIBLE PARTY: MSDS COORDINATOR TELEPHONE: 205-655-3271

DATE PREPARED: 8-1-91

SUPERSEDES: 6-22-88

EMERGENCY TELEPHONE NO. DAY/NIGHT: CHEMTREC 1-800-424-9300

Fire Extinguishers

IDENTIFICATION

PRODUCT NAME: ABC DRY CHEMICAL

SYNONYMS: MULTI-PURPOSE DRY CHEMICAL, MAP, (MONO) AMMONIUM PHOSPHATE, ALL-PURPOSE DRY CHEMICAL

		HAZARDOUS INGREDIE	ENTS	
MATERIAL	CAS NO.	OSHA PEL TWA-mg/m3	ACGIH TLV TWA - mg/m3	
Mica	12001-26-2	3 Respirable Dust	3 Respirable Fraction	
Kaolin	1332-58-7	10 Total Dust 5 Respirable Fraction	10 (c)	

OTHER INGREDIENTS								
MATERIAL	CAS NO.	OSHA PEL TWA - mg/m3	ACGIH TLV TWA - mg/m3					
Monoammonium Phosphate	7722-76-1	15 Total Dust (a) 5 Respirable Fraction	10 (b)					
Ammonium Sulfate	7783-20-2	15 Total Dust (a) 5 Respirable Fraction	10 (b)					

- (a) Particulate matter not otherwise classified.
- (b) Particulate matter not otherwise classified. Total dust containing no asbestos & less than 1% crystalline silica.
- :) Total dust containing no asbestos & less than 1% crystalline silica.

PHYSICAL AND CHEMICAL CHARACTERISTICS									
BOILING POINT (OF): NA	BOILING POINT (OF): NA SPECIFIC GRAVITY (H 20=1): 0.85 VAPOR PRESSURE (MM HG): NA								
PERCENT VOLATILE (%): NA	VAPOR DENSITY (AIR = 1): NA	EVAPORATION RATE: NA							
SOLUBILITY IN WATER: Water repellant coated	REACTIVITY IN WATER: None	MELTING POINT(OF): NA							
pH: 4.4	APPEARANCE & ODOR: Yellow powder. No	& ODOR: Yellow powder. No characteristic odor.							
FLASH POINT (OF): None	AUTO IGNITION TEMPERATURE (OF): NA	FLAMMABLE LIMITS IN AIR BY VOL: NA							
EXTINGUISHER MEDIA: Nune. This	EXTINGUISHER MEDIA: Nune. This material is an extinguishing agent.								
SPECIAL FIRE FIGHTING PROCEDUR	IES: None UNUSUAL FIRE	AND EXPLOSION HAZARDS: None							

PH	YSICAL HAZARDS
STABILITY: Stable	CONDITIONS TO AVOID: NA
INCOMPATIBILITY (MATERIALS TO AVOID): Strong Alkalis	, Mg, Sodium Nitrite, Swimming Pool Sanitizers (Inorganic Perchlorates, Sodium
Dichloroisocyanurate Dihydrate, Trichloroisocyanuric Acid,	, Calcium Hypochlorite, Etc.)
HAZARDOUS DECOMPOSITION PRODUCTS: Ammonia, (Carbon Monozide and Oxides of Nitrogen
HAZARDOUS POLYMERIZATION: Will not occur	CONDITIONS TO AVOID: NA

BALL INDUSTRIES

140 N. Aviation Blvd.

El Segundo, CA 90245

Phone No. (213)772-4131

Emergency Phone No: 1(800)228-5635

Product Code: 35220 35223

35221 35227 35229

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: PINE 64

PRODUCT TYPE: Disinfectant Cleaner

MSDS DATE: January 2, 1993

HMIS HAZARD RATING: HEALTH = 2 FLAMMABILITY = 0

REACTIVITY= 0

HMIS SCALE: 4=VERY HIGH 3=HIGH 2=MODERATE

1=SLIGHT 0=INSIGNIFICANT

HAZARDOUS INGREDIENTS

	CAS NUMBER	OSHA (PEL)	ACGIH (TLV)	%
Didecyl Dimethyl Ammonium Chloride N-Alkyl (C14 50%,C12 40%, C16 10%)	7173-51-5	NE	NE	2.31
dimethyl Benzyl Ammonium Chloride Water	68391-01-5 7732-18-5	NE NE	NE NE	1.54

None of the ingredients are reportable under S.A.R.A. Title III Section 313

II PHYSICAL DATA

APPEARANCE & ODOR: Clear liquid; Pine fragrance.

Boiling Point	Approx.212°F	Specific Gravity (Water = 1)	1.01
Vapor Pressure (mmHg 20C)	ND	Volatile Organic Compound	0 grams/liter
Vapor Density (Air=1)	ND	рН	8.0 - 9.0
Solubility in Water	Complete	Evap.Rate (BuAc=1)	ND

III FIRE & EXPLOSION HAZARD

Flash Point = None	Auto Ignition Temp=NA	Flammable limit
		LEL = NA UEL =NA

SPECIAL FIRE FIGHTING PROCEDURES: NONE

UNUSUAL FIRE & EXPLOSION HAZARDS: NONE

EXTINGUISHING MEDIA: [] Water Spray [] Carbon Dioxide [] Foam [] Dry Chemical [X] NA

																		С	

STABILITY	HAZARDOUS POLYMERIZATION	HAZARDOUS DECOMP./BYPRODUCT
[X] Stable [] Unstable Conditions to Avoid: NA	[] May Occur [X] Will Not Occur Conditions to Avoid: None	Oxides of carbon and nitrogen.

140 N. Aviation Blvd.

El Segundo, CA 90245

Phone No. (213) 772-4131

Emergency Phone No: 1(800)228-5635

Product Code: 30347 30341

30343 30340 30349

MATERIAL SAFETY DATA SHEET

PRO	DII	CT	NAM	$\mathbf{F} \cdot \mathbf{F} \mathbf{X}$	PFI.
* T/O	-	\sim \sim	11/1/1/1		

PRODUCT TYPE: All Purpose Cleaner

PRODUCT TIPE: All Purpose Cleaner

HMIS HAZARD RATING: HEALTH = 1
HMIS SCALE: 4=VERY HIGH 3=HIGH

FLAMMABILITY = 0

MSDS DATE : January 2, 1993 REACTIVITY = 0

2=MODERATE 1=SLIGHT 0=INSIGNIFICANT

HAZARDOUS INGREDIENTS

	CAS NUMBER	OSHA(PEL)	ACGIH(TLV)	%
Water	7732-18-5	NE	NE	
*,** [PA,NJ,MA]2-Butoxyethanol	111-76-2	25 ppm(skin)	25 ppm(skin)	1-5
Isopropanol	67-63-0	400 ppm	400 ppm	1-5
** [PA,NJ,MA]Sodium Tripolyphosphate	7758-29-4	15 mg/m^3	10 mg/m ³	<10
NonylphenoxyPoly(ethyleneoxy)Ethanol	9016-45-9	NE	NE	
** [PA,NJ,MA]EDTA	60-00-4	NE	NE	

^{*} Reportable under S.A.R.A. Title III Section 313

II PHYSICAL DATA

APPEARANCE & ODOR: Clean green liquid; sassafras fragrance.

Boiling Point	Approx.212°F	Specific Gravity (Water = 1)	1.02
Vapor Pressure (mmHg 20C)	NA	Volatile Organic Compound	61 grams/liter
Vapor Density (Air=1)	NA	рН	9.0 ± 0.5
Solubility in Water	Complete	Evap.Rate (BuAc=1)	NA

Flash Point = None	Auto Iginition Temp=NA	Flammable limit
		LEL = NA UEL = NA

SPECIAL FIRE FIGHTING PROCEDURES: NONE

UNUSUAL FIRE & EXPLOSION HAZARDS: NONE

EXTINGUISHING MEDIA: [] Water Spray [] Carbon Dioxide [] Foam [] Dry Chemical [X] NA

V REACTIVITY DATA

STABILITY	HAZARDOUS POLYMERIZATION	HAZARDOUS DECOMP./BYPRODUCT
[X] Stable [] Unstable Conditions to Avoid: NA	[] May Occur [X] Will Not Occur Conditions to Avoid: None	Oxides of carbon .

^{**} Subject to reporting requirements under the Pennsylvania, New Jersey, and Massachusetts Hazardous Substance List.

140 N. Aviation Blvd.

El Segundo, CA

Phone No. (213) 772-4131

Emergency Phone No: 1(800)228-5634

Product Code: 10617

> 10613 10610 10619

MATERIAL SAFETY DATA SHEET

HMIS SCALE: 4=VERY HIGH 3=HIGH 2=MODERATE 1=SLIGHT 0=INSIGNIFICANT

PRODUCT NAME: TIME OFF FLOOR FINISH & SEAL

PRODUCT TYPE: Acrylic Floor Finish

MSDS DATE: January 2, 1993

HMIS HAZARD RATING: HEALTH= 1 FLAMMABILITY = 0 REACTIVITY = 0

I HAZARDOUS INGREDIENTS					
	CAS NUMBER	OSHA(PEL)	ACGIH(TLV)	%	
*,** [PA,NJ,MA]Diethylene Glycol	111-77-3	NA	NA	<3	
Methyl Ether					
** [PA,NJ,MA]Dipropylene Glycol					
Methyl Ether	34590-94-8	100 ppm	100 ppm	<5	
,** Dibutylphthalate	84-74-2	5 mg/m^3	5 mg/m^3	<3	
Water	7732-18-5	NE	NE		
Acrylic Polymer	Not Hazardous	NE	NE		

* Reportable under S.A.R.A. Title III Section 313

PHYSICAL DATA

APPEARANCE & ODOR: Milky White Liquid; Mild Acrylic odor.

Boiling Point	Approx.212°F	Specific Gravity (Water = 1)	1.01
Vapor Pressure (mmHg 20C)	NA	Volatile Organic Compound	238 grams/liter
Vapor Density (Air=1)	NA	pН	8.0 - 8.5
Solubility in Water	Complete	Evap.Rate (BuAc=1)	NA

FIRE & EXPLOSION HAZARD

Flash Point = NA Auto Iginition Temp=NA	Flammable limit LEL = NA UEL = NA
---	-----------------------------------

SPECIAL FIRE FIGHTING PROCEDURES: NONE

UNUSUAL FIRE & EXPLOSION HAZARDS: Material can splatter above boiling point(212°F). Polymer can burn.

EXTINGUISHING MEDIA: [] Water Spray [] Carbon Dioxide [X] NA [] Foam [] Dry Chemical

[X] Stable [] Unstable Conditions to Avoid: Extreme Temperatures	HAZARDOUS POLYMERIZATION [] May Occur [X] Will Not Occur Conditions to Avoid: None	HAZARDOUS DECOMP./BYPRODUCT Oxides of carbon and nitrogen.
--	---	--

^{**} Subject to reporting requirements under the Pennsylvania, New Jersey, and Massachusetts Hazardous Substance List.

140 N. Aviation Blvd.

El Segundo, CA 90245

Phone No. (213) 772-4131

Emergency Phone No: 1(800)228-5635

Product Code: 30117 30111

> 30113 30110 30119

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SYMPHONY

PRODUCT TYPE: Neutral Floor Cleaner

FLAMMABILITY= 0

I=SLIGHT

MSDS DATE : January 2, 1993

HMUS HAZARD RATING: HEALTH = 1

REACTIVITY= 0

HMIS SCALE: 4=VERY HIGH 3=HIGH

2=MODERATE

0=INSIGNIFICANT

HAZARDOUS INGREDIENTS

· ·	CAS NUMBER	OSHA(PEL)	ACGIH(TLY)	%
*,** [PA,NJ,MIA]2-Butoxyethanol	111-76-2	25 ppm	25 ppœ	< 5
NonylphenoxyPoly(ethyleneoxy)Ethanol	(Skin) 9016–45-9	(Skio) NE	NE	

^{*} Reportable under S.A.R.A. Title III Section 313

PHYSICAL DATA

APPEARANCE & ODOR: Light yellow liquid; Pleasant odor.

Boiling Point	Approx.212°F	Specific Gravity (Water = 1)	8.3
-Vapor Pressure (mmHg 20C)	in NA	Yolatile Organic Compound	35 grams/liter_
Vapor Density (Air=1)	NA	Hq	6.0-6.7
Solubility in Water	Complete	Evap.Rate (BuAc=1)	NA

III FIRE & EXPLOSION HAZARD

Flash Point = None	Auto Iginition Temp=NA	Flammable limit
		LEL = NA UEL =NA

SPECIAL FIRE FIGHTING PROCEDURES: NONE UNUSUAL FIRE & EXPLOSION HAZARDS: NONE

EXTINGUISHING MEDIA: [] Water Spray [] Carbon Dioxide

[] Foam

[] Dry Chemical [X] NA

Y		R	E,	A (_1	Γ	۲	Ŋ	Y))	Ą	3	Z	Š	

STABILITY	HAZARDOUS POLYMERIZATION	HAZARDOUS DECOMP.BYPRODUCT
[X] Stable [] Unstable Conditions to Avoid:	[] May Occur [X] Will Not Occur Conditions to Avoid:	Oxides of carbon.

None .

^{**} Subject to reporting requirements under the Pennsylvania, New Jersey, and Massachusetts Hazardous Substance List.

140 N. Aviation Blvd.

El Segundo, CA 90245

Phone No. (213) 772-4131

Emergency Phone No: 1(800)228-5635

Product Code: 10250 10253

> 10251 10257 10259

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: TERMINATOR

PRODUCT TYPE: Floor Stripper

MSDS DATE: January 2, 1993

HMIS HAZARD RATING: HEALTH= 2

FLAMMABILITY= 1

REACTIVITY = 0

HMIS SCALE: 4=VERY HIGH 3=HIGH 2=MODERATE

0=INSIGNIFICANT I=SLIGHT

HAZARDOUS INGREDIENTS

	CAS NUMBER	OSHA(PEL)	ACGIH(TLV)	%
Water	7732-18-5	NE	NE	
*,** [PA,NJ,MA]2-Butoxyethanol	111-76-2	25 ppm(Skin)	25 ppm(Skin)	<40
*,** [PA,NJ,MA]Ethanolamine	141-43-5	3 ppm	3 ppm	<20
NonyiphenoxyPoly(ethyleneoxy)Ethanol	9016-45-9	NE	NE	

^{*} Reportable under S.A.R.A. Title III Section 313

PHYSICAL DATA

APPEARANCE & ODOR: Clear to slightly amber liquid; Mild odor.

Boiling Point	Approx.212°F	Specific Gravity (Water = 1)	0.94
Vapor Pressure (mmHg 20C)	NA	Volatile Organic Compound	340 grams/liter
Vapor Density (Air=1)	NA	pН	12.0
Solubility in Water	Complete	Evap.Rate (BuAc=1)	NA

III FIRE & EXPLOSION HAVARD

Flash Point = ND	Auto Iginition Temp=NA	Flammable limit		
Trasu Tome - MD	Auto ignition remp-11A	riaimmavie mini		
		LEL = NA UEL =NA		

SPECIAL FIRE FIGHTING PROCEDURES: SCBA recommended for firefighters.

UNUSUAL FIRE & EXPLOSION HAZARDS: This material is combustible & may be ignited by heat or flame. EXTINGUISHING MEDIA: [X] Water Spray [X] Carbon Dioxide

[X] Foam

[X] Dry Chemical [] NA

IV REACTIVITY DATA

STABILITY	HAZARDOUS POLYMERIZATION	HAZARDOUS DECOMP,/BYPRODUCT
[X] Stable [] Unstable Conditions to Avoid: NA Incompatibility(Materials to Avoid)- Acids, oxidizers,alkalies	[] May Occur [X] Will Not Occur Conditions to Avoid: None	Oxides of carbon and nitrogen.

^{**} Subject to reporting requirements under the Pennsylvania, New Jersey, and Massachusetts Hazardous Substance List.

Material Safety Data Sheet		I	HMIS ^R	•	
May be used to comply with OSHA's Hazard Communication Standard,	HEALTH	•	3 REACT	IVITY	0
29 CFR 1910.1200. Standard must be consulted for specific requirements.	FLAMMABILITY		2 PERSO	NAL PROTECTIO	И В
Identity (As Used on Label and List) EPA Reg. No. 11694-98-10637 (Steri Spray) (Reorder #35481)		Note: Blank spaces are not permitted. If any flem is not applicable, or no information is available, the apaca must be marked to indicate that.			
SECTION	······································				
Manufactured For: Ball Industries		Emergency Telephone Number 1-800-228-5635			
A Division of W. W. Grainger, Inc.		Telephone Number for Information 1-800-526-4737			
Address (Number, Street, City, State, and ZIP Code 140 N. Aviation Blvd.		Date Prepared July 16, 1993			
El Segundo, CA 90245		Signature of Preparer (Optional) REGULATORY DEPT.			
SECTION II - Hazardous Ingredients/Ide	entity information			····	
Hazardous Components (Specific				Other Limits	
Chemical Identity, Common Name(s))	CAS No.	OSHA PEL	ACGIH-TLV	Recommended	%(Opt.)
Ethyl Alcohel	64-17-5	1000 ppm	1000 ppm		
This product is not known to contain any co	empound in concentrat	ions requiring r	reporting under SA	RA Title III Sectio	n 313.
Any substance listed as hazardous by the S					ts, New
Jersey, New York, Pennsylvania, Rhode Isl		ve if known pro	sent in regulated	concentrations.	
SECTION III Physical/Chemical Charac	teristics				
Bolling Point	176° F	Specific G	ravity (H ₂ O = 1)	@70° F	0.83
Vapor Pressure (mm-Hg @ 70° F)	No Data	Melting Po	int		Not Applicable
Vapor Density (AIR = 1)	Less than one (1)	Evaporatio	n Rate (Butyl Ac	etate = 1)	No Data
Solubility in Water	Complete	рН			8.5 <u>+</u> 0.5
Appearance and Odor Clear light yellow liquid with a floral-alcohol					
SECTION IV - Fire and Explosion Hazar		······································			
Flash Point (Method Used)	Flammable Li	mite		LEL	UEL
73° F (TCC)	I Idillianie Fi		No Data	No Data	No Data
Extinguishing Media -			110 0010	1,0000	740 50%
Carbon dioxide, dry chemical, foam, fog. or	r water sorav				
Special Fire Fighting Procedures -					
Keep containers cool and vapors down with	water spray. Prevent	runoff from en	itering sewers and	l public waterways	Wear SCF
In chemical fires.				. ,	
Unusual Fire and Explosion Hazards - Flammable liquid.					

TEL:708 834 9298



REC'D FEB 23 1994 MATERIAL SAFETY DATA SHI

P. 0

NAME AND HAZARD SUMMARY SECTION 1

Material name: WEATHER BLOK's Bail

Hazard summary (as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200):

Physical hazards: None

Health hazords: Harmful (The active ingredient is designed to cause bleeding after repeated ingestion)

Read the entire MSDS for a more thorough evaluation of the hazards

SECTION 2 INGREDIENTS OSHA PEL Brodifacoum (CA\$ 56073-10-0) 0.005 Not listed Cereal formulation Not listed Paraffin wax Not listed Blue pigment Not listed

> Ingredients not precisely identified are proprietary or nonhazardous. Values are not product specifications. gt = greater than, It = less than, co - approximately

SECTION 3 PHYSICAL DATA

Boiling point: 228-230°C (Brodifacoum) idelting point: 130°F, 54.4°C (paraffin wax) Vaoor pressure (mmHG at 20°C): Negligible Vapor density (air=1): Not applicable

Solublity in water: Insoluble % Volatile by valume: Negtic Appearance and odor: Dark pH; No data Specific gravity: 1.15

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash point (and method): Above 375°F, 190.5°C (PMCC, parafflh wax)

Flammable limits (STP): No data

Autoignition temperature: No data

Extinguishing media: Water fog. foam, carbon dioxide, dry chemical, halogenated agents.

Special fire fighting protective equipment: Self-contained breathing apparatus with full facepiece and protective clothing.

Unusual fire and explosion hazards: None known.

SECTION 5 REACTIVITY DATA

Stability: Stable under normal conditions.

incompatibility (materials to avoid): None known.

Pazardous decomposition products: Combustion products: carbon dioxide, carbon monoxide.

Hazardous polymerization: Will not occur.

SECTION 6 HEALTH HAZARD ASSESSMENT

General: This description of toxicological properties is based on experimental results and experience with a similar product and the active Ingrec Ingestion: The coute oral LD_{ss} in rat is probably above 5 g/kg. A single dose of this product is classifled as "practically nontoxic" by ingestion Eye contact: No imitation is likely to develop following contact with human eyes.

Skin contact: Initiation will probably not develop following contact with human skin.

Stim absorption: Systemically taxic concentrations will probably not be absorbed through the skin in man.

inhalation: No toxic effects are known to be associated with inhalation of dust from this material.

Other effects of overexposure: Effects are those of anticoagulant overdosage: reduced blood clotting ability with spontaneous bleeding in vo body tissues. Body accumulation will probably tesult after repeated exposures to Bradifacoum because its body half-life is estimated to be days.

First aid procedures:

Skin: Wash material off of the skin with plenty of soop and water, If redness, Itching, or a burning sensation develops, get medical attention. Eyes: immediately flush with plenty of water for at least 15 minutes, if redness, itching or a burning sensation develops, have eyes examined treated by medical personnel.

Ingestion: Give 1 or 2 glasses of water to drink and induce vomiting by sticking finger down throat. Repeat until vomitus is clear, Refer perso rnedical personnel. (Never give anything by mouth to an unconscious person.)

Inholation: Remove person to fresh atr. If cough or other respiratory symptoms develop, consult medical personnel.

1 lote to Physician: Vitamin K₁ is antidatal at doses of 10-20 mg combined with blood (or plasma) transfusions in cases of severe hemorrhage. I ment should be continued until prothrombin times have stabilized at normal levels. Body half-life of brodilacoum is estimated to be 120 days in ar tests.

SECTION 7 SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Sweep up and recover or mix material with moist absorbent and shovel into waste conto

Stappsal method: This material is toxic to lish and wildlife. Do not contaminate waterways by cleaning of equipment or by disposal of wastes treated effluent should not be discharged where It will drain into takes, streams, or ponds. Discarded product Is not a hazardous waste under R 40 CFR 261.

Container disposal: Puncture or otherwise destroy empty container before disposal.

MONSANTO PRODUCT NAME

ROUNDUP® HERBICIDE

MONSANTO COMPANY 800 N. LINDBERGH BLVD. ST. LOUIS, MO 63167

Emergency Phone No. (Call Collect) 314-694-4000

PRODUCT IDENTIFICATION

Synonyms:

None.

Chemical Name:

Not Applicable, Formulated Product

Active Ingredient:

*Isopropylamine salt of glyphosate.....

Inert Ingredients:

_59.0%

41.0%

*Contains 480 grams per liter or 4 pounds of the active ingredient isopropylamine

salt of N-(phosphonomethyl) glycine per U.S. gallon. Equivalent to 356 grams per liter or 3 pounds per U.S. gallon of the acid, glyphosate.

CAS Reg. No.:

Not Applicable, Formulated Product

CAS Reg. No.

Active Ingredient:

38641-94-0

EPA Reg. No.:

524-308

DOT Proper Shipping

Name:

Not Applicable

DOT Hazard Class/

I.D. No.:

Not Applicable

DOT Label:

Not Applicable

Reportable Quantity (RQ)

Under Clean Water Act:

Not Applicable

U.S. Surface Freight

Classification:

Weed Killing Compound, N.O.I.B.N.

The substance listed below is identified as a hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200):

Surfactant, about 15%. The specific chemical identity is withheld because it is trade secret information of Monsanto Company.

WARNING STATEMENTS

Keep out of reach of children.
WARNING!
CAUSES EYE IRRITATION
HARMFUL IF SWALLOWED
MAY CAUSE SKIN !RRITATION
NOT FOR REFORMULATION OR REPACKAGING

REC'DFEB 23 1994

Material Safety Data Sheet #262 May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor

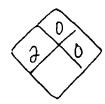
Occupational Safety and Health Administration (Non-Mandatory Form)

(Non-Mandatory Form) Form Approved

OMB No. 1218-0072



Note: Blank spaces are not permitted. If any item is not applicable, or no IDENTITY (As Used on Label and List) information is available, the space must be marked to indicate that. Riverdale Tri-Power Selective Herbicide Emergency Telephone Number Manufacturer's Name Riverdale Chemical Company 1-800-424-9300 Address (Number, Street, City, State, and ZIP Code) Telephone Number for Information 425 West 194th Street 1-800-345-3330 Date Prepared Glenwood, Illinois 60425 1 - 15 - 91Signature of Preparer (optional) Riverdale Chemical Company Section II — Hazardous Ingredients/Identity Information Other Limits Hazardous Components (Specific Chemical Identity; Common Name(s)) OSHA PEL ACGIH TLV Recommended % (optional) Dimethylamine Salt of 2-Methyl-4-Chlorophenoxyacetic Acid NA NA 40.42% CAS No. of Acid: 94-74-6 Dimethylamine Salt of 2-(2-Methyl-4-Chlorophenoxy)propionic Acid NA 15.97% NA CAS. No of Acid: Dimethylamine Salt of Dicamba (3.6-Dichloro-o-Anisic Acid) 3.97% CAS No: 2300-66-5 Sodium Lignosulfonate CAS No: 68512-34-5 15mg/M^3 0.5% $5me/M^3$ NΑ for dusts for dusts Water, CAS No: 007732-18-5 NA Under SARA Title III Sections 311/312 this product is classified as: An immediate health hazard A delayed health hazard Section III - Physical/Chemical Characteristics **Boiling Point** Specific Gravity (H2O = 1) 1.140 212°F Vapor Pressure (mm Hg.) Melting Point Equivalent NA to water Vapor Density (AIR = 1) Evaporation Rate NA NA (Butyl Acetate = 1) Solubility in Water 100% Soluble and dilutable with water. Appearance and Odor Dark Liquid, ammonia odor. Section IV — Fire and Explosion Hazard Data LEL UEL Flash Point (Method Used) Flammable Limits Aqueous solution, does not flash Not datermined N.D. N.D. Extinguishing Media Dry chemical, CO2, foam. Water spray to cool. Special Fire Fighting Procedures Product will produce toxic and noxious fumes under extreme fire conditions. Use self-contained breathing equipment in confined areas and in smoke or fumes. Unusual Fire and Explosion Hazards Drums of product will burst from steam pressure under extreme and prolonged fire conditions. (Reproduce locally) OSHA 174, Sept. 1985





SURFLAN® A.S.

ID5500/5949/5834;FN7153

SURFLAN® A.S., aqueous suspension, is a preemergence surface-applied herbicide for the control of most annual grasses and certain broadleaf weeds.

I. MANUFACTURER/EMERGENCY INFORMATION

A. Manufacturer

Elanco Products Company A Division of Eli Lilly and Company Lilly Corporate Center Indianapolis, Indiana 46285

- B. Emergency Telephone Numbers Eli Lilly and Company (317) 276-2000 CHEMTREC (800) 424-9300
- C. General Information Telephone Number Elanco Products Company (317) 276-3000
- D. Issued: 1/84; Revised: 10/85, 2/89

II. MATERIAL IDENTIFICATION

A. Generic Name

Oryzalin

40 406

- 1. Chemical Abstract Registry Number (CAS#): 19044-88-3
- B. Chemical Name of Active Ingredient: 3,5-Dinitro-N⁴,N⁴-dipropylsulfanilamide
- C. Other Ingredients

Inert Ingredients

59.6%

There are no hazardous or carcinogenic inert ingredients.

III. PHYSICAL AND CHEMICAL PROPERTIES

- A. Chemical Name of Active Ingredient: 3,5-Dinitro-N⁴,N⁴-dipropylsulfanilamide
- B. Normal Physical State, Odor, Appearance: Bright orange opaque liquid with a slight aromatic odor.
- C. Boiling Point (at 1 atmosphere): 212°F (100°C)
- D. Vapor Pressure: Approximately 23 mm Hg at 25°C.
- E. Specific Gravity: 1.138 to 1.239 at 25°C.
- F. pH (aqueous 50/50): 5.0 to 6.8.
- G. Solubility in Water: Miscible in water.
- H. Vapor Density: 1.178 relative to air at 25°C.
- I. Evaporation Rate: Not available.

IV. FIRE AND EXPLOSION HAZARD DATA

- A. Auto-Ignition Temperature: Water based product.
- B. Flashpoint: No ignition up to 200°F (93.3°C).
- C. Explosive Limit
 - 1. Lower Explosive Limit (LEL): Water based product.
 - 2. Upper Explosive Limit (UEL): Water based product.
- D. Unusual Fire and Explosion Hazards: None known.

REC'D FEB 23 1994

D. . . 1

ERNY'S/THE ANDERSONS MATERIAL SAFETY DATA SHEET

MSDS ID NO: E030

DATE PREPARED: 03/01/93

SECTION I: PRODUCT IDENTITY

PRODUCT NAME: Erny's 17-2-5 Liquid Fertilizer

MFR INFO:

Erny's

P.O. Box 452

Walton, Indiana 46994

FOR EMERGENCY:

(419) 537~7408

FOR INFORMATION:

(800) 552-3769 IN INDIANA

(219) 626-2522 OUTSIDE INDIANA

DATE PRINTED: 03/16/93

SECTION II: COMPONENT INGREDIENT IDENTITY INFORMATION

OSHA

ACGIH

COMPONENT

PEL

TLV

Potash

 $\{CAS \neq 7447-40-7\}$

Urea

(CAS # 57-13-6)

Ammonium polyphosphate (CAS # Not listed)

MANUFACTURER SANDOZ AGRO, INC. 1300 East Touthy Avenue Des Plaines, IL 60018

Emergency Phone: (708) 699-1616

Date issued: January, 1992 Supersedes: March, 1991

► 1. PRODUCT INFORMATION

Trade Name: BARRICADE® 65 WG HERBICIDE

Synonym: Prodiamine

Chemical Family: Dinitroaniline herbicide

Formula: C, H, F, N, O,

CAS Registry Number: 29091-21-2

EPA Reg. No.: 55947-43

► 2. HEALTH/SAFETY ALERT.

CAUTION: CAN CAUSE EYE IRRITATION, WEAR COVERALLS AND GLOVES WHILE USING THE PRODUCT, MIGHT CAUSE SKIN SENSITIZATION IN SOME PEOPLE AVOID BREATHING DUST, READ THE LABEL

▶ 3. FIRST AID PROCEDURES

Eye: Flush with water until clear. Contact a physician if irritation persists.

Skin: Wash with soap and water. Rinse thoroughly.

ingestion: Drink 1 or 2 glasses of water. Induce vomiting by touching back of throat with finger or blunt object.

Inhalation: Remove the person to clear air.

IN ALL EMERGENCY SITUATIONS, CONTACT A PHYSICIAN.

► 4. NOTE TO PHYSICIAN

Treat symptomatically.

▶ 5. FIRE AND EXPLOSION HAZARD

Explosive Limits (% by Volume): Lower. N/A Upper. N/A

Flammability: Not flammable

Flash Point Does not flash

Extinguishing Media: Water spray, foam, dry chemical

Special Protective Equipment in severe fire, wear protective clothing and use self contained breathing equipment.

Special Fire Fighting Procedures: None

Products of Combustion: Herbicide fumes, NOx, HF, CO

Unusual Fire and Explosion Hazards: None

I► 6. SPILL CONTROL AND CLEANUP

Steps to be taken: Carefully sweep up spilled material and put into a container and close it. Avoid breathing the dust.

Absorbents: None

Counteractants: None

Incompatibles: Oxidizing agents

▶ 7. PRODUCT/WASTE DISPOSAL

If possible, use collected material according to label directions. Otherwise, dispose of it at an approved chemical waste facility.

► 8. SPECIAL PRECAUTIONS

None. Handle in the same manner as any herbicide.

▶ 9. HEALTH HAZARD INFORMATION ...

Signs and Symptoms of Acute Overexposure: Eye imitation, possible skin sensitization.

Acute Toxicity:

Oral: (LD_{so}) rats—greater than 5,000 mg/kg.

Dermal: (LD_{so}) rats—greater than 2,000 mg/kg.

Inhalation: (LC₂₀)—undetermined, highest concentration that could be generated (1.80 mg/L) did not cause animal deaths.

Primary Route of Entry: Oral: No Dermal: No

Inhalation: Yes

Carcinogen as determined by: NTP: Not listed

IARC: Not listed OSHA: Not listed

Other Toxicological Information

Sensitizer: Mildly sensitizing

Skin Irritation: Non-irritating (rabbits)

Eye Irritation: Mildly irritating (rabbits)

Target Organ(s): None identified

► 10. RECOMMENDED GENERAL PRECAUTIONS

Storage: Store in original container, in a cool, dry area for herbicides.' Ventilation: Natural ventilation should suffice in storage.

Personal Protective Equipment: Wear protective clothing (coveralls and gloves) while handling this product.

▶ 11. PRODUCT INFORMATION—HAZARDOUS INGREDIENTS

NFPA Rating:

Health: 1

Fire: 1

Reactivity: 0

Special Properties: None

Exposure Limits:

OSHA PEL: Not determined

ACGIH TLV: Not determined ...

NIOSH Recommended Limit: Not determined

Hazardous Ingredients: Using definition of OSHA 29 CFR 1910.1200.

Component (chemical name, common name)	WT%
Prodiamine	65%
Non-hazardous ingredients	<u>35%</u>
	1000

► 12. PHYSICAL INFORMATION

Appearance and Odor: Yellow granules, bland odor

Boiling Point N/A

Melting Point 255 F/124°C .

Vapor Pressure: less than 1 mm Hg

Vapor Density: N/A

Specific Gravity: N/A

Solubility: dispersable in water (mg/liter)

Evaporation Rate: N/A

Stability: Stable

Reactivity: Not reactive

Decomposition Products: N/A

► 13. REGULATORY REPORTING

SARA SECTION 311/312 HAZARD CATEGORIES:

Immediate Health: Yes (imitation)

Delayed Health: No

Fire: No

Sudden Pressure: No

Reactivity: No 1987

The information presented herein, while not guaranteed, was prepared by technically knowledgeable personnel and to the best of our knowledge is true and accurate. It is not intended to be all inclusive and the manner and conditions of use and handling may involve other or additional considerations.

Barricade[©] 65 WG Herbicide is a registered trademark of Sandoz Ltd. A-1253

REC'D FEB 23 1994

n a K C U CHEMIC. a division of PureGro Com R.R. #4, 201 E. Benton St Clinton, IL 61727 16-2-5, 18-2.25-5 Contrion: (217) 935-2178 May cause eye & skin irritation PRODUCT INFORMATION Larical Name and Synonyms: Trade Name and Synonyms: Cnemlawn Liquid Time-Release Liquid Urea Formaldehyde Resin Nitrogen Fertilizer (LTR-N) Formula: Chemical Family: Urea Formaldehyde Complex-N/A CAS Number: Not listed Listed In: OSHA Subpart Z NTP List ACGIH'TLV List IARC Monograph None of the above Typical Composition: Z 16 **1**8 Total Nitrogen, as N Total Phosphorous, as P_2^{05} Total Potassium, as K_2^{05} 2 2.25 PHYSICAL DATA Boiling Point (CF): Melting Point (°F): Varor Pressure (mm Hg.): less than 1 @ 100°F. Specific Gravity (H,0=1): 1.18 V_{i} \neq Density (Air=1): N/A Percent. Volatile: By Volume (7): Solubility in Water: Infinite N/A Evaporation Rate: Appearance and Odor: white liquid/slight aldehyde odor 10.17 to 10.25 pounds/gal. Other: 7.4 - 7.8FIRE AND EXPLOSION HAZARD INFORMATION lash Point (Method Used): ASTM Method D-56 Flammable Limits: LEL UEL extinguishing Media: water spray to keep containers cool N/A N/A ipecial Fire Fighting Procedures: Essentially nonflammable

housual Fire and Explosion Hazards: None known. CHEMLAWN APPLIES ONLY HIGHLY DILU SOLUTIONS OF THIS PRODUCT (UEUA

HEALTH INFORMATIONS THAN ONE HALF OF ONE PERCE

THEREFORE INFORMATION ON FIRE H hreshold Limit Value: Not established Toxicity: acute oral LD50 Dog greater than 5.9 MFAMS/kgHAZARDS AND HANDL

acute oral LD50 female mice greaten than NED MAYrams 7km PPLY TO THE

ffects of Overexposure: LUNED PRODUCTA Not generally considered toxic or hazardous. Prolonged exposure may cause slight kin irritation. Contact with eyes may cause irritation.

1 -2-6 , 17-2-5

Camtion:

a division of PureGro Comp R.R. #4, 201 E. Benton St. Clinton, IL 61727 (217) 935-2178

No precautionary label information appropriate. PRODUCT INFORMATION

Chemical Name and Synonyms:

Hixture of ammonium polypnosphate solution, potassium chloride & urea Trade Name and Synonyms: Marco Liquid Fertilizer (clear-green)

Themical Family:

Ammonium, Potassium & Urea salts

Formula:

Not Available - Complex

LAS Number: Not Listed

Listed In: OSHA Subpart Z		_ACGI	H TLV List	NIP List
IARC Monograph	X	None	of the above	
Typical Composition:		7.	*	~
Total Phosphorous as P.O.		16	17	
Total Phosphorous, as P ₂ O ₅ Total Potassium, as K ₂ O		É	5	
Balance - Water, trace impurities	PHYSICAL		c x	•

Boiling Point (OF): Loses H₂0 0 212

T Pressure (mm Hg.): N/A

Valor Density (Air=1):

Solubility in Water: Complete Melting Point (OF): -15

Specific Gravity (H₂0=1): 1.194

Percent. Volatile: N/A

By Volume (7):

Evaporation Rate: N/A

appearance and Odor: Clear light green with little or no ammonia odor

Other: 9.83 to 9.96 pounds/gal. E: 6.7 to 7.0

FIRE AND EXPLOSION HAZARD INFORMATION

Tash Point (Method Used): N/A

Flammable Limits:

LEL N/A

UEI N/A

Extinguishing Media: Use water to keep containers cool

Special Fire Fighting Procedures:

Wear full protective clothing, self-contained breathing apparatus.

Juusual Fire and Explosion Hazards:

HEALTH INFORMATEOMUTIONS OF THIS PRODUCT (USUAL

hreshold Limit Value: None Established

LESS THAN ONE-HALF OF ONE PERCEN THEREFORE INFORMATION ON FIRE HA ARDS, HEALTH HAZARDS AND HANDLI FRECAUTIONS MAY NOT APPLY TO THE E LUTED, PRODUCT.

iffects of Overexposure:

Eye - Irritant Skin - None listed

Inhalation - (At high temps) causes irritation of mucous membranes, coughing or difficult breathing.

Ingestion - None listed

Metal MSDSs



4001 K 14 KIL

This Material Safety Data Sheet complies with OSHA Hazard Communicatio Standard 29CFR 1910.1200

PRODUCT: LEAD (FABRICATIONS/FORMS)

CODE: - 3001

COMMIN NAME OR SYNONYMS: Corroding, Chemical, Acid, Common Desilverized, Tellurium, & High Purity Grade Lead in the following forms: wire, ingot, pig, pipe, anodes, cast or extruded bar, sheet, brick, wool, came, tape, and miscellaneous

extruded lines.

SECTION I

MANUFACTURERS NAME:

4323 South Western Boulevard

Chicago, Illinois 60609

Phone 312-523-3230 FAX 312-523-3854

INTERMATION PHONE :

Toll Free/Outside IL

EXERGENCY PHONE

1-800-255-6937

CHEMTREC: 800-424-9300

PREPARATION DATE :" January 1989

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT

CAS NO.

OSHA PEL

ACGIH TLV

OTHER

WI. PERCEL

Lead

7439-92-1

 $0.05 \, \text{mg/m}^{3}$

0.15 mg/m3

99.94

Ad "tional Information: OSMA Action Level for Lead 0.03 mg/m3 (See 290FR 1910.1025)

AFFEARANCE & ODDR (AT NORMAL CONDITIONS) : Solid - Silver Metallic to Gray Metallic Metal - No Odor

STECIFIC GRAVITITY (H20 = 1)

: 11.34

MELTING POINT (DEGREES C)

: 328

BOILING POINT (DEGREES C)

. : 1744

SOLUBILITY IN WATER

: Insoluble

EVAPORATION RATE (BUTYL ACETATE = 1)

: Not Applicable

VAFOR DEWSITY (AIR = 1) -

.: Not Applicable

VAPOR PRESSURE (mmHq)

: Not Applicable

₽H

: Not Applicable

SECTION IV - FIRE & EXPLOSION HAZAPD DATA

FLASH POINT

: Non-Flammable

FLAMMABLE LINCITS

: Not Applicable

EXTINGUISHING MEDIA

: No specific agents recommended

SPECIAL FIRE FIGHTING PROCEDURES: If involved in fire, use full protective clothing and MIOSH/MSHA approved self-contained breathing

apparatus operated in a positive-pressure mode.

UNUSUAL FIRE & EXPLOSION HAZARDS : None

SECTION V - REACTIVITY DATA

STIBILITY

: Stable

TIONS TO AVOID

: Not Applicable

INCOMPATIBILITY

: Strong Oxidizers, Hydrogen Peroxide, Active Metals - Sodium, Potassium. Powdered lead fused with

ammorium nitrate may cause a violent reaction.

HAZARDOUS DECOMPOSITION PRODUCTS: At temperatures above the melting point lead oxide fumous may be evolved.

SPC TECHNOLOGY

4801 N. RAVENSWOOD AVE.

MAIL TO:

* EMERGENCY/INFORMATION TELEPHONE

312/907-5184

* FORMULA: DATE: 1/23/92

* MSDS EFFECTIVE: 2/1/92 BY: J.L.

* SUPERSEDES MSDS OF: 4/1/90

DEAR CUSTOMER:

IN COMPLIANCE WITH THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA TITLE III, SECTION 313), FEDERAL HAZARD COMMUNICATIONS REGULATIONS (WHMIS AND OSHA 29 CFR 1910.1200) AND IN THE INTEREST OF INFORMED USE OF OUR PRODUCT, WE ARE PROVIDING YOU WITH THIS MATERIAL SAFETY DATA SHEET (MSDS).

THIS MSDS WILL BE UPDATED REGULARLY TO REFLECT THE MOST RECENT INFORMATION IN OUR POSSESSION. PLEASE ENSURE THAT OBSOLETE MSDS SHEETS IN YOUR FILES FOR THIS PART NUMBER ARE DISCARDED.

WE THANK YOU FOR YOUR CONTINUED PATRONAGE AND LOOK FORWARD TO PROVIDING YOU WITH ADDITIONAL QUALITY PRODUCTS AND SERVICES.

******** SECTION I - PRODUCT IDENTIFICATION ****************

PART NUMBER:

TLR

PRODUCT NAME:

ROSIN CORE SOLDER

TRADE NAME/SYNONYMS:

ENERGIZED ROSIN CORE SOLDER

CHEMICAL FAMILY:

WIRE CORE SOLDER

************ SECTION II - HAZARDOUS INGREDIENTS *************** STEL UNITS LC50, PPM LD50, MG/KG CAS NO. WT % PEL TLV ~************************ Lead #7439-92-1 30-60 0.05* 0.15* N/A MG/M3 N/A N/A 7440-31-5 40-70 2.0 2.0 N/A Tin MG/M3 N/A N/A Rosin 8050-09-7 1-5 N/A N/A N/A N/A N/A

INGREDIENTS TOTAL WT% ARE BELOW 100% ONLY IF ALL OTHERS
"NLISTED ARE NOT CONSIDERED HAZARDOUS BY ANY FEDERAL, (OSHA, WHMIS, SARA),

AY STATE OR PROVINCE, OR LOCAL RIGHT-TO-KNOW REGULATIONS.

SYMBOLS, ABBREVIATIONS AND NOTATIONS:

N/A=NOT AVAILABLE OR APPLICABLE, C=CEILING LIMIT, S=SKIN DESIGNATION

#=LISTED IN SARA TITLE III SECTION 313, *=IF FOUND AS DUST, MIST OR FUME

M=HUMAN, RAB=RABBITS, GPG=GUINEA PIGS, MIC=MICE

I=INGESTION, A=SKIN ABSORPTION, LO=LITTLE OBSERVABLE EFFECT, NO=NO EFFECT

PEL=OSHA PERMISSIBLE EXPOSURE LIMIT, TLV=ACGIH THRESHOLD LIMIT VALUE

STEL=SHORT TERM EXPOSURE LIMIT, @ = AMONG THE 5 MOST PREDOMINANT SUBSTANCES.



Material Safety Data Sheet

Section 1 - Product Identification						
Manufacturer's Name Various	Issue Date November 1, 1990					
Product Name / Trade Name Brass Alloys	Common Name / Grade Half Hard, Free Cutting, Leaded Naval, Naval					

Section 2 · Typical Chemical Composition (1)

			Permissible Air Level (3)			
Ingredient (2)	CAS No.	Wt. %	OSHA PEL	ACGIH TLV		
Base Metal						
Copper (Cu)	7440-50-8	55-90	1.0	1.0		
Alloying Elements						
Zinc (Zn)	7440-66-6	45.0	5.0	5.0 (Resp)		
Lead (Pb)	7439-92-1	3.7	0.05(4)	0.15(4)		
Tin (Sn)	7440-31-5	- 1.0	2.0 (5)	2.0 (6)		
REMARKS: Basis for TLV: Cu	- irritant properties		Zn0 Dust - nuisa	ince dust		
Zn	al fume fever	Pb - blood, CNS effects				

Section 3 - Physical Data

Material is (At Normal Conditions) Solid	Appearance And Odor Reddish-Brown Metal/No Odor
Melting Point (Base Metal) 1590 - 1900° F	Specific Gravity $(H_2O = 1) 7.7-8.9$

Section 4 - Fire - Explosion

Brass products in the solid state present no fire or explosion hazard.

Dust hazards exist under favoring conditions of small practice size. Dispersion in air and strong ignition source may result in an explosion.

Section 5 - Reactivity Data

Stable under normal conditions of use, storage and transportation.

Incompatible with mercury, ammonia, acetylene. Avoid exposure during storage to strong acids, bases or oxidizing agents.

Toxic gases, aerosols and vapors may be released in a fire involving copper alloys if fume of other compounds or other contacting materials are involved.

Section 6 · Health Hazard Information (See Section 2 for exposure limits.)

Health Effects / Signs and Symptoms:

Copper (Cu)

Inhalation of Cu fumes may cause irritation of the eyes, nose, and throat and a flu-like illness called metal fume fever. Signs and symptoms of metal fume fever include fever, muscle aches, nausea, chills, dry throat, cough, and weakness. Cu fumes may also produce a metallic or sweet taste. Repeated or prolonged exposure to Cu fumes may cause discoloration of the skin and hair.

Zinc (Zn)

Subjecting zinc or alloys containing zinc to high temperatures (such as occurs during welding) will cause the formation of zinc oxide. Exposure to zinc oxide fumes or dusts can result in a flu-like illness called metal fume fever. Early symptoms may include a sweet or metallic taste in the mouth, dryness and irritation of the throat, and coughing. These symptoms may progress to shortness of breath, headache, fever, chills, muscle aches, nausea, vomiting, weakness, fatigue, and profuse sweating. The attack may last 6-48 hours and is more likely to occur after a period away from the job.

MATERIAL SAFETY DATA SHEET

Hazardous Material as Defined in 29 CFR 1910.1200 OSHA Limit

SECTION 1: COPPER ALLOY C93200 High Leaded Tin Bronze

SECTION 2: ELEMENTS Chemical Exposure Limits Alloying Elements 1% or Greater

			(1984-1985)	
			OSHA Limit	ACGIH
Element	CAS Number		8-hr TWA	8-hr TWA
Copper	(7440-50-8)	(Dust) (Fume)	1.0 mg/m³ 0.1 mg/m³	1.0 mg/m³ 0.2 mg/m³
Lead	(7439-92-1)		0.05 mg/m³	0.15 mg/m³
Tin	(7440-31-5)		2 mg/m³ (Inorganic, except oxides)	2.0 mg/m³
Zinc	(7440-66-6)	(Fume)	5 mg/m³	5.0 mg/m ³
Nickel	(7440-02-0)		1.0 mg/m³	1.0 mg/m³

SECTION 3: PHYSICAL DATA

Physical Form:

Solid

Boiling Point:

N/A

Freeze Melt Temperature: 1570° - 1790° F

Vapor Pressure:

N/A

Evaporation Rate: Specific Gravity:

N/A 8.93

Density:

Solubility in Water:

.322 lb/in3 N/A

Color:

Red

Odor:

None

SECTION 4: FIRE AND EXPLOSION DATA

Flashpoint: N/A

Auto Ignition Temp: N/A

Flammability Limits: N/A

In the solid form, there are no fire or explosion hazards with this: alloy. Fine chips or dust may ignite and should be stored in a well-ventilated area. In case of fire, use extinguishing agents appropriate for the surroundings or materials. Dry chemicals or sand should be used to extinguish fires. Fire fighters should wear full protective clothing and where conditions warrant NIOSH-approved, self-contained breathing apparatus, see sections 6 and 7.

SECTION 5: REACTIVITY DATA

Copper alloys are stable under normal conditions of transport, use, and storage.

SECTION 6: HEALTH HAZARD DATA

Primary Routes of Entry: Inhalation of dust or fumes.

Under normal handling and use, exposure to the solid form of copper alloys presents few health hazards. Thermal cutting, melting, machining/grinding may produce fumes or dust containing the component elements, and breathing these fumes or dust may present significant health hazards. The exposure limits in Section 2 are relevant to fumes and dust.

COPPER: Fumes of copper may cause metal fume fever with flu-like symptoms, and may cause skin and hair discoloration.

LEAD - Short-Term Exposure: Lead is an accumulative poison. Inhalation effects of exposure to fumes or dust of inorganic lead may not develop quickly. Symptoms may include decreased physical fitness, fatigue, sleep disturbance, headache, aching bones and muscles. constipation, abdominal pains, and decreasing appetite. The effects are reversible and complete recovery is possible. Inhalation of large amounts of lead may lead to seizures, coma, and death.

LEAD - Long-Term Exposure: Long-term exposure to lowe levels can result in a build-up of lead in the body and more severe symptoms. Prolonged exposure may also result in kidney damage. Continuous exposure can result in decreased fertility, and exposure of the mother during pregnancy can cause birth defects.

TIN: Chronic overexposure to tin fumes may cause an apparent benign pneumoconiosis. This is called stannosis

ZINC: Overexposure to zinc oxide fumes can cause "Meta Fume Fever."

NICKEL: Nickel dust and fumes can cause lung irritation, shortness of breath, coughing and wheezing.

SECTION 7: SPILL OR LEAK PROCEDURES

No special precautions are necessary for spills of bulk material. If large quantities of dust are spilled, remove by vacuuming or wet-sweeping to prevent heavy concentrations of airborne dust. Cleanup personnel should wear respirators and protective clothing. Scrap metal can be reclaimed for reuse. Follow Federal, State, and Local regulations regarding disposal.

SECTION 8: SPECIAL PROTECTION INFORMATION

Use general and local exhaust ventilation to keep airborne concentrations of dust and fumes below the TLV. When required, employees should wear OSHA- or NIOSHapproved respirators for protection against airborne dust c fumes. Approved safety glasses and/or goggles should be worn during any machining, grinding, cutting or other operation from which airborne particles may be emitted. Food or drink should not be consumed in the work area.

SECTION 9: SPECIAL PRECAUTIONS

Use good housekeeping practices to prevent accumulations of dust and to keep airborne dust concentrations at & minimum. Avoid breathing dust or fumes. Store dust away from source of ignition.

PLEASE FORWARD THIS DATA SHEET TO THE APPROPRIATE COMPANY SAFETY OFFICIALS!

ALUMINUM CASTING ALLOYS

319, 355, 356, 443, 535 & 713

(Prepared June 4 1990)

IDENTITY

TRADE NAME

Aluminum Association Registration Numbers

319.X (formerly AllCast), 355.X, 356.X, 444.X, 535.X (formerly Almag 35) & 713.X (formerly 613, Tenzalloy). Where X is 0 for castings, 1 or 2 for ingot

CHEMICAL NAME Mixture

PRODUCT Aluminum foundry Ingot and castings

CHEMICAL FAMILY Aluminum (Al) alloys containing Si, Fe, Cu, Mn, Mg, Cr, Ni, Zn, Ti, Be, Pb, and or Sr

SECTION I

MANUFACTURERS NAME

Brumund Foundry Inc.

EMERGENCY TELEPHONE NUMBER

(312) 287-9250

(800) 424-9300 - CHEMETREC

ADDRESS

'400-12 West Carroll Ave. _hicago, Illinois 60624-1698

TELEPHONE NUMBERS FOR INFORMATION

(312) 287-9250 FAX (312) 261-5855

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

PERCENT BY WEIGHT 355 356 443 535 713 MATERIAL 319 Aluminum AL Remainder-----0.003-0.007 Beryllium Be 0.003 maxChromium Cr 0.10 max 0.25 max 0.35 max Copper Cu 3.0-4.0 1.0-1.5 0.4 max 0.15 max 0.05 max 0.4-1.0 Iron Fe 1.0 max Fe 1.0 max 0.6 max 0.6 max 0.8 max 0.10 max 0.8 max Magnesium Mg 0.6 max 0.4-0.6 0.2-1.3 0.05 6.6-7.5 0.25 - 0.50Manganese Mn 0.5 max 0.5 max 0.35 max 0.1-0.25 0.6 max Ni 0.5 max 0.03 max 0.15 max Nickel Silicon Si 5.5-7.0 4.5-5.5 6.5-10. 4.5-6.0 0.10 max 0.25 max Strontium Sr 0.01 max 0.02 maxSn 0.1 max Tin Ti 0.03-0.25 0.05-0.25 0.03-0.25 0.25 0.1-0.25 0.1-0.25 Titanıum 7.0-8.0 Zn 1.0 max 0.35 max 0.35 max 0.35 max Zinc

HERTEL CUTTING TECHNOLOGIES

MATERIAL SAFETY DATA SHEE

CONTRACTOR CONTRACTOR

MSDS # H-001

Carbiele Ingerts

K-1811H-001

Date of Issue: 11/93 Supercedes: N/A Date Prepared: 11/93

IDENTIFICATION

PRODUCT NAME:

218, 502, 569, 715, 816, 818, 48, 68, 10F, 12C, 15C, 15F, 12Y, A, A6, A9, A12, A15, A20, A25, A30, B, BB, B10, B20, B30, B50, B55, B30SG, B50SG, CF2, CG4, CM5, CS3, CS5, G10, G13, G16, G20, G30, G40, G55, GE10, GE30, GE50, GE55, GU1, GU2, HD15, HD20, HD25, KF1, KMF, KMH, KMX, K03, K05, MMT1, MMT2, MN1, MN2, MN3, MN4, MN5, MN6, PWX

CHEMICAL NAME:

Tungsten Carbide with Cobalt binder

CHEMICAL FAMILY:

Refractory Metal Carbide

SYNONYMS:

Hard Metal, Cemented WC, Tungsten Carbide

MOLECULAR FORMULA: Mixture

INGREDIENTS

		% BY	OSHA PEL-TWA	ACGIH TLV-TWA		IAZARD CALE O	
MATERIAL	CAS NUMBER	WEIGHT	(mg/m³)	(mg/m³)	HEALTH	FIRE	REACTIVITY
				·	No NFPA		
Tungsten Carbide	12070-12-1	70-98	5	5	Rating	, ' o ,	0
		•	~.	28.	• • •	-	-
*Cobalt	7440-48-4	2.0-30.0	0.05	0.05		3	0
						- · ·	
		6.5	T 27.0 8%0 %	87	Two Brighter	٠.	. * i

Identifies substances that are subject to the requirements of Section 313 of Title III of Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

PHYSICAL DATA

DESCRIPTION

Gray powder or solid

SPECIFIC GRAVITY ($H_20 = 1$) 12 to 15.5 SOLVENT SOLUBILITY Practically insoluble

BOILING POINT 2870°C (5198°F) VAPOR DENSITY (AIR = 1) AT AMBIENT TEMP. Not measurable PERCENT VOLATILES
BY VOLUME
Negligible

MELTING POINT 1495°C (2723°F) SOLUBILITY IN WATER Practically insoluble

EVAPORATION RATE
Not measurable

♦ ♦ ♦ EMERGENCY PHONE NUMBERS ♦ ♦ ♦ CHEMTREC 800-424-9300

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MATERIAL SAFETY DATA SHEL

24-HOUR EMERGENCY ASSISTANCE	GENERAL ASSISTANCE	NFPA FIRE HAZARD SYME
BP America (In Ohio): 800-362-8059 (Outside Ohio): 800-321-8642 CHEMTREC Assist: 800-424-9300	514-742-5911	Figure 4-Extreme Figure 3-High 2-Moderate 1 jeans Reactivity
MSDS Number > CF6		Special 1-5 lght Hazarda 0-insignificant Hazarda8ee Text

MANUFACTURER: Quebec Metal Powders Limited

ADDRESS: 1655 Marie-Victorin, Tracy, Quebec, Canada J3R 4R4

PRODUCT IDENTIFICATION

TRADE NAME:

ATOMET 29

· Ponderd conterd metal type Biank

CAS NUMBER: 7439-89-6

SYNONYM(S): REDUCED IRON POWDER

CHEMICAL FAMILY: Metals MOLECULAR FORMULA: Fe MOLECULAR WEIGHT: 55.8

AODUCT CODE: NA

HIERARCHY: NA

PRODUCT HAZARD SUMMARY

HEALTH

CAUTION!

MAY BE HARMFUL IF SWALLOWED OR INHALED

MAY BE IRRITATING TO THE SKIN, BYES AND RESPIRATORY TRACT

REACTIVITY

STABLE

SHODUOTI HEALTHHAZAHDINEORMATIONS

EFFECTS OF OVEREXPOSURE

INGESTION:

Not a normal route of exposure. However, if ingested it may cause gastrointestinal disturbances. Symptoms may include metallic taste, thirst, abdominal pain, seizures, vomiting and bloody diarrhea. May also cause lethargy, irritability, increased cardiand respiratory rates, metabolic acidosis, shock, hepatic failure, jaundice, pancreatinjury, cirrhosis of the liver, vascular collapse and death.

SKIN:

Repeated or prolonged contact may cause irritation due to abrasion.

F. 16

MATERIAL SAFETY DATA SHEET (MSDS)

SC-000-057 REV. 2 DATE 8-1-91 CODE 24-4

CONFORMS TO REQUIREMENTS OF OSHA STANDARD 1910.1200

"HAZARD COMMUNICATION" AND TO VARIOUS STATE

"EMPLOYEE RIGHT TO KNOW" LAWS

COPYRIGHT 1988 AMERICAN FOUNDRYMEN'S SOCIETY

SECTION I PRODUCT IDENTIFICATION

This MSDS supplied for: ALUMINUM CASTINGS-700 SERIES

VENDOR NAME AND ADDRESS: Precision Enterprises, Inc.

Div of Duro Cast, Inc.

145 W. Market St.

EMERGENCY PHONE NUMBER: Somonauk

Somonauk, I1 60552

815-498-2317

FIRE HAZARD CLASS: HEALTH: 0 FIRE: 1 REACTIVITY: 1

THE 4TH DIAMOND:

ANSI: CAUTION! DUST AND CHIPS WILL BURN WITH A HOT FLAME. FUMES FROM THIS CASTING MAY CAUSE METAL FUME FEVER! NICKEL COMPOUNDS AND HEXAVALENT INSOLUBLE CHROMIUM HAVE BEEN FOUND TO BE CARCINOGENS IN LABORATORY ANIMALS.

SECTION II - HAZARDOUS COMPONENTS

INGREDIENT	CAS NO.	PERCENT	TLV	PEL
Aluminum**	7429-90-5	Balance	10 mg/cu.m	N/E
Chromium*	7440-47-3	0.06-0.60	.0.5 mg/cu.m	
Chromium (hexav	alent)	•	0.05 mg/cu.m	
Copper*	7440-50-8	0.10-1.0	0.2 mg/cu.m	0.1 mg/cu.~
			as fume	as fume
			l mg/cu.m	1 mg/cu.m
			as dust	as dust
Iron	7439-89-6	0.10-1.4	5 mg/cu.m	
			as iron	
Manganese*	7439-96-5	0.05-0.60	·	C 5 mg/cu.m
			as dust	as dust
			l mg/cu.m	
	•		as fume	
Magnesium	7439-95-4	0.3-2.4	10 mg/cu.m	15 mg/cu.m
Nickel*	7440-02-0	<0.15	l mg/cu.m	1 mg/cu.m
Silicon	7440-21-3	0.2-0.3	10 mg/cu.m	15 mg/cu.m
Titanium	7440-32-6	0.11-0.25	10 mg/cu.m	15 mg/cu.m
•			as titanium	oxide
Zinc**	7440-66-6	2.70-8.0	5 mg/cu.m	5 mg/cu.m
			as oxid	le fume

N/E means none established.

N/A means not applical

N/D means no data available.

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71-548 Mil ines

TERIAL SAFETY DATA SHEET

Spectrulite Consortium Inc. College and Weaver Streets Madison, Illinois 62060 Contact: Technical Dept. Emergency Phone: 618-452-5190

Page: 1

PRODUCT NAME: PRC MAGNESIUM PLATES

MSDS Code No: M-33 Effective Date: 12/31/87

1. COMPOSITION:

BASE METAL NOMINAL COMPOSITION:

 MAGNESIUM
 CAS# 007439-95-4
 96%

 ALUMINUM
 CAS# 007429-90-5
 3%

 ZINC
 CAS# 007440-66-6
 1%

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

PHYSICAL AND CHEMICAL DATA:

BOILING POINT: 2000°F, 1079°C

VAP. PRESSURE: NIL (mmHg @ 20C, 68F)

SOL. IN WATER: NIL SP. GRAVITY: 1.77

VAP. DENSITY: Burns in air

APPEARANCE: : Silvery white metal coated with a photoresist.

DDDR: Not available.

. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: Ignites and burns @ melting point, approx. 1200F (649C).

METHOD USED: Not applicable

FLAMMABLE LIMITS:

LFL: Not applicable UFL: Not applicable

EXTINGUISHING MEDIA: Approved extinguishing powder for magnesium fires such as "G-1 Powder" made by Fyr-Fyter, Inc., P.O. Box 2752, Newark, NJ 07114 or dry, clean iron chips.

FIRE & EXPLOSION HAZARDS: Do not put liquids on magnesium fires. Application of water could cause explosion.

FIRE FITHTING EQUIPMENT: Not available.



Material Safety Data Sheet

ALUMINUM

100

SECTION 1 – Product Identification

Distributor: Joseph T. Rverson & Son, Inc.

Address: 2621 W. 15th Place

Chicago, Illinois 60608

Chemical Name and Synonyms: ALUMINUM ALLOY

Chemical Family: Metals Formula: Not Applicable

Emergency Telephone: 312-762-2121

SECTION 2 - Product Description and Hazardous Ingredients/Identity Information

See Chart Inside For Listing

SECTION 3 – Physical Data

Melting Point F (C): Wide Range – 900-1200 (482-649)

Vapor Pressure: Not Applicable

Vapor Density (Air = 1): Not Applicable

Solubility in Water: Negligible

Specific Gravity ($H_20 = 1$): Greater Than 3 % Volatile by Volume (%): Not Applicable

Evaporation Rate: Not Applicable

Appearance and Odor: Grayish to silvery odorless sheet, strip, plate, bar, structural shapes, pipe and tubing and extrusions.

SECTION 4 – Fire and Explosion Hazard Data

Flash Point F (C): Not Applicable

Extinguishing Media: Use methods applicable to

surrounding area.

Flammable Limits: Not Applicable

Unusual Fire and Explosion Hazards: None

Special Fire Fighting Procedures: Use self-contained breathing apparatus for protection against degradation products and fire fighting technique or agent(s) applicable to surrounding materials. Small chips, fine turnings, and dust may ignite readily. Use coarse water spray on chips, turnings, etc. Use class D extinguishing agents or dry sand on fines. Do not use halogenated extinguishing agents on small chips or fines. Dust clouds may be explosive. Molten aluminum may explode on contact with water.

DISCLAIMER

RYERSON MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The information contained in this Material Safety Data Sheet (MSDS) is believed to be correct, but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications, hazards connected with the use of the material or the results to be obtained from the use thereof. User assumes all risk and liability of any use, processing or handling of any material. Variations in methods; conditions; equipment used to ore, handle or process the material; and hazards in connection with the use of the material are solely the responsibility of the user and remain at its sole assertion.

As sold, the product described in this MSDS is considered by Ryerson to be an "article" within the meaning of Title 29 of the Code of Federal Regulations, Section 1910. 1200 et seq. This MSDS is intended to be used solely for the purpose of satisfying informational requests made pursuant to that requirement. It is not intended to preempt, replace or expand the terms contained in Ryerson Conditions of Sale. Compliance with all applicable federal, state and local laws and regulations remains the responsibility of the user, and the user has the responsibility to provide a safe workplace, to examine all aspects of its operation, and to determine if or where precautions, in addition to those described herein, are required.

Exposure Limits (mg/m²) PEL TLV Values are time- weighted averages. indicates a calling or short-term exposure limit		7075	22	6063	8081	¥5	5464	5086	5083	5052	5006	3106	3003	2024	2017	2011	1108	Grade	
Weding Funa 5 5	*Aluminum																		
Not Cistad	Bismuth																		CAS NUMBER:
As Metal 1 0.5 Chromium II and III cods 0.5 0.5 Chrome Acid and Chromates 0.1c 0.05 as Crd, as Cr	*Chromium		94.0													>91.0	>98.0	*Auminum	7429-90-5
As Over and Fume 0.1 0.1	*Cobalt	9.	â	ê.	ê	£	ê	ē	Đ.	â	ð.	<u>&</u>	ê.	ě	8	ě	<1.0	Silican	7440-21-3
As Copper Dust 1 1 As Copper Fume 0.1 0.2	*Copper	A .5	4 0.7	ē.	4.7	ě	Ą	95	ě	4.4	40.7	a ,	8.7	<u>a</u> .	40,7	4 ,7	41.0	Iron	1309-37-1
· A TOTAL	→	20	ě	Ą	ş	ē	Ą	Ā	ē	Ą	£	£	A	c4.9	ŝ	đ.	å	Copper	7440-50-8
As Total Periculare 10 . As Fe . 5	iron	è	&	<u>4</u>	A 22	41.0	41.0	4 .7	<1.0	<u>a</u>	A 22	4 0.8	ć. <u>5</u>	ě	<1.0		<u>A</u>	*Manganese	7439-96-5
As horganic Pb Dust and Furne 0.05 0.15	*Leed	29	42	A.9	412	č	ö	Ġ	â	28	<u>÷</u>	2		<u>:</u>	A 8			Magnesium	7439-95-4
As Manganese Dust Sc Sc Sc As Manganese Fune 1,3c 1,3c	*Manganese	&	40.2	<u>a</u> .	<u>B</u>	4 2	6 .2	å	8	Ą	<u>a</u> .	40.2		<u>A</u>	<u>a.</u> 1			*Chromium	7440-47-3
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As Gas (ppm) 0.1 0.1	Ozone	40.2	æ 2	<u>4</u>	d .2	£	£	8	A 2			ş		Æ	è			Trignium	7440-32-6
10.5 resp. 10	Silicon																	*Cobalt	746-48-4
19,5 n	Tita		9.7													3.6			7439-92-1
10,5 reap, 10	Taunium		A .7													<u>4</u>		Bismuth	7440-69-9
As Vanedium Personide Dust Cutte resp. 0.05 resp. As Vanedium Personide Fume 0.05	Vanadium																	Vanadium	7440-82-2
As Zinc Ox Oust 10,5 resp. As Zinc Ox Fume 5, 10c 5,	•Zinc																1	1	



Material Safety Data Sheet

STEEL



SECTION 1 – Product Identification

Distributor: Joseph T. Ryerson & Son, Inc.

Address: 2621 W. 15th Place Chicago, Illinois 60608

Chemical Name and Synonyms: STEEL

Chemical Family: Metals Formula: Not Applicable

Emergency Telephone: 312-762-2121

SECTION 2 - Product Description and Hazardous Ingredients/Identity Information

See Chart Inside For Listing

SECTION 3 – Physical Data

Melting Point F (C): Greater Than 2800 (1540)

Vapor Pressure: Not Applicable

Vapor Density (Air = 1): Not Applicable

Solubility in Water: Negligible

% Volatile by Volume (%): Not Applicable **Evaporation Rate:** Not Applicable

Specific Gravity ($H_20 = 1$): Greater Than 7

Appearance and Odor: Grayish to silvery odorless sheet, strip, plate, bar, structural shapes, pipe and tubing.

SECTION 4 – Fire and Explosion Hazard Data

Flash Point F (C): Not Applicable

Extinguishing Media: Use methods applicable to

surrounding area.

Flammable Limits: Not Applicable Unusual Fire and Explosion Hazards: None

Special Fire Fighting Procedures: Use self-contained breathing apparatus for protection against degradation

products and fire fighting technique or agent(s) applicable to surrounding materials.

DISCLAIMER

RYERSON MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The information contained in this Material Safety Data Sheet (MSDS) is believed to be correct, but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications, hazards connected with the use of the material or the results to be obtained from the use thereof. User assumes all risk and liability of any use, processing or handling of any material. Variations in methods; conditions; equipment used to store, handle or process the material; and hazards in connection with the use of the material are solely the responsibility of the user and remain at its sole

As sold, the product described in this MSDS is considered by Ryerson to be an "article" within the meaning of Title 29 of the Code of Federal Regulations, Section 1910. 1200 et seq. This MSDS is intended to be used solely for the purpose of satisfying informational requests made pursuant to that requirement. It is not intended to preempt, replace or expand the terms contained in Ryerson Conditions of Sale. Compliance with all applicable federal, state and local laws and regulations remains the responsibility of the user, and the user has the responsibility to provide a safe workplace, to examine all aspects of its operation, and to determine if or where precautions, in addition to those described herein, are required.

^{*} Steel products may be coated with petroleum oils to meet customer specifications. Information relative to specific coatings may be obtained from Ryerson.

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Material Safety Data Sheet STAINLESS

SECTION 1 – Product Identification

Distributor: Joseph T. Ryerson & Son, Inc.

Address: 2621 W. 15th Place Chicago, Illinois 60608

Chemical Name and Synonyms: STAINLESS STEELS

Chemical Family: Metals Formula: Not Applicable

Emergency Telephone: 312-762-2121

Specific Gravity ($H_20 = 1$): Greater Than 7

% Volatile by Volume (%): Not Applicable

Evaporation Rate: Not Applicable

Flammable Limits: Not Applicable

Unusual Fire and Explosion Hazards: None

SECTION 2 – Product Description and Hazardous Ingredients/Identity Information

See Chart Inside For Listing

SECTION 3 – Physical Data

Melting Point F (C): Greater Than 2550 (1400)

Vapor Pressure: Not Applicable
Vapor Density (Air = 1): Not Applicable

Solubility in Water: Negligible

Appearance and Odor: Grayish to silvery odorless sheet, strip, plate, bar, structural shapes, pipe and tubing.

SECTION 4 – Fire and Explosion Hazard Data

Flash Point F (C): Not Applicable

Extinguishing Media: Use methods applicable to

surrounding area.

Special Fire Fighting Procedures: Use self-contained breathing apparatus for protection against degradation

products and fire fighting technique or agent(s) applicable to surrounding materials.

DISCLAIMER

RYERSON MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The information contained in this Material Safety Data Sheet (MSDS) is believed to be correct, but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications, hazards connected with the use of the material or the results to be obtained from the use thereof. User assumes all risk and liability of any use, processing or handling of any material. Variations in methods; conditions; equipment used to store, handle or process the material; and hazards in connection with the use of the material are solely the responsibility of the user and remain at its sole discretion.

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SECTION II CHEMICAL COMPO	NENTS	GAS NUMBER	RANGE N	TLY (UNITS)	OSHA PEL	
Iron (limits for iron oxide fume	2)	1309-37-1	50-98	5 mg/m ³	10 mg/r	
Tungsten		7440-33-7	<u> </u>	5 mg/m ³	None Vi	
Chromium		7440-47-3	0-14	0.5 mg/m	1 mg/m	
Cobalt		7440-4B-4	0-12'	0.1 mg/m ³		- 1
Molybdenim	,	7439-98-7	0-9	5 mg/m ^{3.}	5' mg/m	3
Nickel		7440-02-0	0-5	1 mg/m ³	1 mg/m	3
Vanading (limits for dust)		1314-62-1	0-5	05 ma/m	,05 mg/	M
(limits for fume)				05 mg/m	0.1 mg/	
Manganese (limits for dust)		7439-96-5	0-3	5 ma/m ³	5 mg/m	
(limits for fume)				1 mg/m ³	None Listed	
silicon		7440-21-3	0-3	Listed_	_ listed	3
Carbon		1773-86-4	0-3	3.5 mg/m	3.5 mg/	m_
SECTION III . PHYSICAL DATA			12 m r ;			
BOILING POINT CAST	N/A	SPECIFIC CRAVIT		·	8	
Vapor pressure (MH Ho.)	N/A	DY VOLUME (%) EVAPORATION R	· ·		N/A	
VAPOR DENSITY (AIR = 1) 12 11	N/A	<u> </u>	# 11		N/A	
SOLUBILITY IN WATER	N/A	MELTING POINT			_260Ö÷2800)F_
	Metallic	and odorl	ess'solid			
SECTION IV - FIRE AND EXPLO	SION HA	ZARD DAT	Α		UEL	
FLASH POINT (METHOD WEED)	N/A	truny	ひしま いいける	LEL_		
EXTINGUISHING MEDIA	N/A	· · · · · · · ·	<u> </u>			
SPECIAL FIRE FIGHTING PROCEDURES	N/A					

MA - NOT APPLICABLE UH - UHKHOWH

PAGE 1 (CONTINUED ON REVERSE SIDE)

REC'D FEB 01 1994

10



MATERIAL SAFETY DATA SHEET

REC'D FEB 23 1994

K-0963-002 (3/91) SUPERCEDES: 3/90 DATE PREPARED

IDENTIFICATION

PRODUCT NAME:

K1, K2S, K2S-M, K4H, K4H-M, K5H, K6, K6-M, KMN-10, K21, K21-M, K29, K40, K45, K45-M K84, K86, K90, K91-M, K92, K94, K95, K96, K96-M, K400, K420, K600, K2884, K2885, K3 K8735, KC210, KC250, KC800, KC810, KC820, KC850, KC910, KC950, KT101, K-ALL, KM, KWH-M, HG-100, SP139, SP145 Pins, SP240, SP266, SP278, SP291, SP316, Cycloid, Gri

Media, Kengrit, S Pellets, TS181B,

CHEMICAL NAME:

Tungsten Carbide with Cobalt binder

CHEMICAL FAMILY:

Refractory Metal Carbide

SYNONYMS:

Hard Metal, Cemented WC, Tungsten Carbide

MOLECULAR FORMULA:

Mixture

INGREDIENTS

	C.A.S.	% BY	OSHA TLV-TWA	ACGIH TLV-TWA	NFPA HAZARD RATING SCALE 0-4				
MATERIAL	NUMBER	WEIGHT	(mg/m³)	(mg/m³)	HEALTH	FIRE	REACTI		
Tungsten Carbide	12070-12-1	30.0-97.7	5	5	No NFPA Rating	0	0		
*Cobalt	7440-48-4	2.0-25.0	0.05	0.05	1	3	0		
Tantalum Carbide	12070-06-3	0.1-15.0	5	5	No NFPA Rating	0	0		
Titanium Carbide	12070-08-5	0.1-15.0	5	None Established	No NFPA Rating	0	0		
Niobium Carbide	12069-94-2	0.1-5.0	5	5	No NFPA Rating	0	0		

[•] Identifies substances that are subject to the requirements of Section 313 of Title III of Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

PHYSICAL DATA

DESCRIPTION
Gray powder or solid

RELATIVE DENSITY ($H_20 = 1$) 9.5 to 15.5

SOLVENT SOLUBILITY
Practically insoluble

aray powder or solid

VAPOR DENSITY (AIR = 1) AT AMBIENT TEMP.

PERCENT VOLATILES
BY VOLUME

BOILING POINT 2870°C (5198°F)

Not measurable

EVAPORATION RATE

MELTING POINT 1495°C (2723°F)

SOLUBILITY IN WATER
Practically insoluble

Negligible

Negligible

EMERGENCY PHONE NUMBER

Chemtrec 800-424-9300

Kennametal Inc. • P.O. Box 231, Latrobe, PA 15650 • Phone 412-539-5000

MATERIAL SAFETY DATA SHEET

This Material Safety Data Sheet is principally directed to managerial, safety, hygiene and medical personnel. It is intended as a starting point for the development of health and safety procedures.

This Material Safety Data Sheet (MSDS) meets the requirements of the Federal OSHA Hazard Communications Standard (29 CFR 1910.1200).

SECTION I. PRODUCT IDENTIFICATION

MATERIAL NAME:

CHEMICAL FAMILY:

CHEMICAL NAME AND SYNONYMS:

FORMULA:

ALUMINUM

Metal

Not applicable

Not applicable

SECTION	II.	HAZARDOUS	INGREDIENTS

NAME		CAS#	TLV	PEL	PERCENT
Aluminum	(Al)	7429-90-5	5	10	min. 93.0
Silicon	(Si)	7440-21-3	5	10	max. 1.8
Iron	(Fe)	7439-89-6	5	10	max. 1.0
Copper	(Cu)	7440-50-8	0.2	1	max. 1.2
Manganese	(Mn)	7439-90-5	1	5c	max. 1.1
Magnesium	(Mg)	7439-95-4	10		max. 1.5
Zinc	(Zn)	7440-66-6	5	5	max. 2.4
Chromium	(Cr)	7440-47-3			max35

SECTION III. PHYSICAL DATA

BOILING POINT, degrees F:

VAPOR PRESSURE, 68 deg. F mm. Hg:

VAPOR DENSITY (Air = 1):

SOLUBILITY IN WATER:

APPEARANCE AND ODOR:

SPECIFIC GRAVITY (Water = 1):

MELTING POINT (Wide range):

EVAPORATION RATE (Ether = 1):

FLASH POINT, degrees F:

(Method used)

FLAMMABLE LIMITS IN AIR, % LEL:

UEL:

Not applicable

Not applicable

Not applicable

Grey to silver metallic

color. No odor.

2.5 to 2.9

870 to 1453 deg. F.

Not applicable

Not applicable

Not applicable Not applicable

Not applicable

Oil and Solvent MSDSs

MATERIAL SAFETY DATA SHEET

**** SECTION I ****

MANUFACTURER NAME

EMERGENCY PHONE NUMBER

EEZ PRODUCTS DIVISION MULLEN CIRCLE BRAND, INC. 3514 WEST TOUHY AVENUE CHICAGO, ILLINOIS 60645

708-676-1880

REVISION DATE

12/91

TRADE NAME TUF TAP

CHEMICAL FAMILY PETROLEUM

FORMULA

2-15-T

**** SECTION II - HAZARDOUS INGREDIENTS **** PERCENT TLV/PEL/STEL INGREDIENT

PETROLEUM OIL

1.0%+ 5 MG/CUBIC METER (MIST)

(HAZARDOUS ONLY IF MISTED)

NOT A CARCINOGEN

OSHA HAZARD CLASSIFICATION (29CFR1910.1200): NONE

D.O.T. SHIPPING CLASSIFICATION (49CFR172) : PETROLEUM OIL, NOIBN

**** SECTION III - PHYSICAL DATA ****

APPEARANCE & ODOR : BEIGE PASTE; MILD PETROLEUM ODOR

SPECIFIC GRAVITY, 60 F : .91
BOILING POINT, F : 500
MELTING POINT, F : 130
VAPOR DENSITY (AIR=1) : HEAVIER
SOLUBILITY IN WATER : SLIGHT PERCENT VOLATILE BY VOLUME: NONE

EVAPORATION RATE (WATER=1): NOT APPLICABLE

**** SECTION IV - FIRE & EXPLOSION DATA ****

FLASH POINT, F (METHOD): 350 MINIMUM (C.O.C.)

FLAMMABLE LIMITS : NOT APPLICABLE EXTINGUISHING MEDIA : FOAM, CARBON DIOXIDE, DRY CHEMICALS,

WATER FOG OR MIST.

FIRE FIGHTING PROCEDURES: KEEP EXPOSED CONTAINERS COOL. FIRE FIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS.

**** SECTION V. - HEALTH HAZARD DATA *****

EFFECTS OF OVEREXPOSURE:

NO SIGNIFICANT HEALTH EFFECTS ARE EXPECTED UPON SHORT TERM EXPOSURE TO SKIN AND EYES. PROLONGED OR REPEATED EXPOSURE MAY CAUSE MILD SKIN AND EYE IRRITATION. INHALATION OF HIGH VAPOR CONCENTRATIONS MAY CAUSE NAUSEA AND BREATHING DIFFICULTIES.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: FLUSH IMMEDIATELY WITH COOL, CLEAN WATER FOR 15 MINUTES. SKIN: REMOVE BY WIPING. WASH WITH MILD SOAP AND WATER. INHALATION: REMOVE TO FRESH AIR. IF BREATHING IS STOPPED, START ARTIFICIAL RESPIRATION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. WASH CLOTHING THOROUGHLY BEFORE REUSE. IRRITATION DEVELOPS OR PERSISTS, SEE A PHYSICIAN.

MSDS NUMBER

0165

MATERIAL SAFETY DATA SHEET

PRODUCT: RUSTLICK EDM-250

COMMON NAME: EDM OIL

DATE:

8/2/93

EMERGENCY NUMBER: 508-777-1100

SECTION I - IDENTIFICATION

CHEMICAL NAME: N/A Mixture - No C.A.S. Number

-CHEMICAL FAMILY: Petroleum Hydro Carbons

LOS ANGELES (714) 996-6400 • CHICAGO (312) 641-2079

D.O.T. HAZARD CLASSIFICATION: None

SECTION II — INGREDIENTS, INERT OR HAZARDOUS

MATERIAL	C.A.S.#	%	TLV*	PEL**
Non Hazardous	Ingredients Comp	osition of Prod	luct is Proprie	ory
	formation Write:		·	<u></u>
	Devcon Corp.			
	30 Endicott Str	eet		
	Danvers, MA 01	923		

Safety Department Attn:

SECTION III — PHYSICAL DATA

A. Boiling Point: 470°F B. Melting Point: NA

C. Evaporation Rate: (Buac=1)<.1 D. Solubility in Water: Insoluble

E. Appearance: Colorless Liquid

F. Violate by Weight: NA G. Specific Gravity: >. 75

H. Vapor Pressure: (mm Hg)<.1 I. Vapor Density: (air=1)75

G.Odor: None

SECTION IV — FIRE AND EXPLOSION DATA

A. Flash Point: 244^OF PMCC

* Cool exposed containers with water.

B. Extinguishing Media: Foam, Dry, Chemical, CO₂ AVOID: Excessive inhalation

C. Hazardous Decomposition Products: Oxides of Carbon

D. Firefighting Procedures: Use Self Contained Breathing Equipment in Confined Area *

E. Unusual Fire and Explosion Data or Hazardous: Do not store or mix with strong oxidants (I.E. - Liquid Chlorine or Liquid Oxygen)

SECTION V — HEALTH HAZARD DATA

- A. Primary Route(s) of Entry:
- B. Effects of Overexposure:
 - 1. Eyes Irritation 2. Breathing - Unlikely
 - 3. Swallowing N/A
 - 4. Skin Irritation

No known chronic effects

REC'D FEB 01 1994

I C. First Aid:

- 1. Eyes Flush with clean water
- 2. Breathed, Swallowed or Skin: Unlikely, N/A, Wash with Soap & Water
- 3. Medical Conditions Recognized as possibly aggravated by Exposure: Skin disorders may be aggravated by prolonged or repeated contact.

[^]ARCINOGENIC ASSESSMENT - None

Threshold Limit Value, ACGIH

Permissable Exposure Limi

600668-00 MOBIL VELOCITE OIL NO. 6

MOBIL OIL CORPORATION MATERIAL SAFETY DATA BULLETIN

REVISED: 06/22/93 I. PRODUCT IDENTIFICATION ****** MOBIL VELOCITE OIL NO. 6 24-HOUR EMERGENCY (CALL COLLECT): SUPPLIER: MOBIL OIL CORP. (609) 737-4411 CHEMICAL NAMES AND SYNONYMS: CHEMTREC: PET. HYDROCARBON AND ADDITIVES (800) 424-9300 USE OR DESCRIPTION: PRODUCT AND MSDS INFORMATION: SPINDLE OIL (800) 662-4525 ***** II. TYPICAL CHEMICAL AND PHYSICAL PROPERTIES APPEARANCE: Light Amber Liquid ODOR: Mild PH: NA VISCOSITY AT 40 C, CS: > 8.9 VISCOSITY AT 100 C, CS: 2.6 FLASH POINT F(C): > 310(154) (ASTM D-92)MELTING POINT F(C): NA POUR POINT F(C): 30(-1)BOILING POINT F(C): > 600(316) VOC: < 10.00(Wt. %); 0.707 lbs/gal SOLUBILITY IN WATER: Negligible RELATIVE DENSITY, 15/4 C: 0.848 VAPOR PRESSURE-mm Hg 20C: < 0.1 NA=Not Applicable NE=Not Established D=Decomposes FOR FURTHER INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE. III. POTENTIALLY HAZARDOUS INGREDIENTS Low viscosity oils have been associated with skin irritation. (See Section IV.) See Sections XII and XIII for regulatory and further compositional data. ****** IV. HEALTH HAZARD DATA ****** --- INCLUDES AGGRAVATED MEDICAL CONDITIONS, IF ESTABLISHED ---THRESHOLD LIMIT VALUE: 5.00 mg/m3 Suggested for Oil Mist EFFECTS OF OVEREXPOSURE: Prolonged repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis. V. EMERGENCY AND FIRST AID PROCEDURES ****** --- FOR PRIMARY ROUTES OF ENTRY ---Flush thoroughly with water. If irritation occurs, call a EYE CONTACT: physician. SKIN CONTACT: Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. Remove from further exposure. If respiratory irritation, INHALATION: dizziness, nausea, or unconsciousness occurs, seek immediate medical

assistance and call a physician. If breathing has stopped, use

TION: Do not induce vomiting. Give 1 to 2 glasses of water. Get medical assistance. (Note to physician: Material if aspirated into the lungs may cause chemical pneumonitis. Treat appropriately.)

mouth to mouth resuscitation.

602623-00 MOBIL DTE 24

MOBIL OIL CORPORATION MATERIAL SAFETY DATA BULLETIN

REVISED: 06/22/93 ****** I. PRODUCT IDENTIFICATION ******* MOBIL DTE 24 SUPPLIER: 24-HOUR EMERGENCY (CALL COLLECT): MOBIL OIL CORP. (609) 737-4411 CHEMICAL NAMES AND SYNONYMS: CHEMTREC: PET. HYDROCARBONS AND ADDITIVES (800) 424-9300 USE OR DESCRIPTION: PRODUCT AND MSDS INFORMATION: HYDRAULIC OIL (800) 662-4525 ***** II. TYPICAL CHEMICAL AND PHYSICAL PROPERTIES ****** APPEARANCE: Amber Liquid ODOR: Mild PH: NA VISCOSITY AT 40 C, CS: > 30.4 VISCOSITY AT 100 C, CS: 5.3 FLASH POINT F(C): > 395(202) (ASTM D-92)MELTING POINT F(C): NA POUR POINT F(C): -10(-23)BOILING POINT F(C): > 600(316) VOC: < 3.00(Wt. %); 0.219 lbs/gal RELATIVE DENSITY, 15/4 C: 0.874 SOLUBILITY IN WATER: Negligible VAPOR PRESSURE-mm Hq 20C: < 0.1 NA=Not Applicable NE=Not Established D=Decomposes FOR FURTHER INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE. ***** III. POTENTIALLY HAZARDOUS INGREDIENTS None See Sections XII and XIII for regulatory and further compositional data. ****** IV. HEALTH HAZARD DATA ******* --- INCLUDES AGGRAVATED MEDICAL CONDITIONS, IF ESTABLISHED ---THRESHOLD LIMIT VALUE: 5.00 mg/m3 Suggested for Oil Mist EFFECTS OF OVEREXPOSURE: No significant effects expected. V. EMERGENCY AND FIRST AID PROCEDURES --- FOR PRIMARY ROUTES OF ENTRY ---EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician. SKIN CONTACT: Wash contact areas with soap and water. High pressure accidental injection through the skin requires immediate medical attention for possible incision, irrigation and/or debridement. Not expected to be a problem. INHALATION: INGESTION: Not expected to be a problem. However, if greater than 1/2 liter(pint) ingested, immediately give 1 to 2 glasses of water and call a physician, hospital emergency room or poison control center for assistance. Do not induce vomiting or give anything by mouth to an unconscious person.

671305-00 VACMUL 3 A

MOBIL OIL CORPORATION MATERIAL SAFETY DATA BULLETIN

```
REVISED: 06/21/93
******
                       I. PRODUCT IDENTIFICATION ***************
                             VACMUL 3 A
SUPPLIER:
                                      24-HOUR EMERGENCY (CALL COLLECT):
    MOBIL OIL CORP.
                                           (609) 737-4411
CHEMICAL NAMES AND SYNONYMS:
                                      CHEMTREC:
     PETROLEUM HYDROCARBONS
                                           (800) 424-9300
USE OR DESCRIPTION:
                                      PRODUCT AND MSDS INFORMATION:
     METAL PROCESSING OIL
                                           (800) 662-4525
*****
             II. TYPICAL CHEMICAL AND PHYSICAL PROPERTIES
APPEARANCE: Light Amber Liquid
                                   ODOR: Mild
                                                       PH: NA
VISCOSITY AT 40 C, CS:
VISCOSITY AT 100 C, CS: NE
FLASH POINT F(C): 260(127) (ASTM D-92)
MELTING POINT F(C): NA
                                   POUR POINT F(C): 30(-1)
BOILING POINT F(C): > 450(232)
                                   VOC: < 40.00(Wt. %); 2.905 lbs/qal
                                   SOLUBILITY IN WATER: Negligible
RELATIVE DENSITY, 15/4 C: 0.871
VAPOR PRESSURE-mm Hg 20C: < 0.1
          NA=Not Applicable NE=Not Established D=Decomposes
    FOR FURTHER INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE.
******** III. POTENTIALLY HAZARDOUS INGREDIENTS
                                                       *****
                                        -- EXPOSURE LIMITS --
                                        ---TWA--- ---STEL--- NOTE
                          Wt.% Source ppm mg/m3
                                                   ppm mg/m3
STRAIGHT RUN MIDDLE
                           100%
DISTILLATE (64741-44-2)
Low viscosity oils have been associated with skin irritation.
 (See Section IV.)
See Sections XII and XIII for regulatory and further compositional data.
NOTE: Limits shown for guidance only. Follow applicable regulations.
                       IV. HEALTH HAZARD DATA
******
                                              *******
    --- INCLUDES AGGRAVATED MEDICAL CONDITIONS, IF ESTABLISHED ---
THRESHOLD LIMIT VALUE: 5.00 mg/m3 Suggested for Oil Mist
EFFECTS OF OVEREXPOSURE: Prolonged repeated skin contact with low
    viscosity materials may defat the skin resulting in possible
    irritation and dermatitis.
```

600486-00 MOBIL VACTRA OIL NO. 1

MOBIL OIL CORPORATION MATERIAL SAFETY DATA BULLETIN

	1	REVISED:06/24/93
************************ I. PRODUCT IDENTI		*****
MOBIL VACTRA OIL	NO. 1	•
SUPPLIER: 2	4-HOUR EMERGENCY	
MOBIL OIL CORP.	(609) 737-441	11
	HEMTREC:	
PET. HYDROCARBONS AND ADDITIVES	(800) 424-930	
	RODUCT AND MSDS	
WAY OIL	(800) 662-452	25
******** II. TYPICAL CHEMICAL AND PH	YSICAL PROPERTIES	S ********
	: Mild	PH: NA
VISCOSITY AT 40 C, CS: > 30.0		
VISCOSITY AT 100 C, CS: 5.3		
FLASH POINT $F(C)$: > 350(177) (ASTM D-92))	
MELTING POINT F(C): NA POUR	POINT F(C): 20(-	-7)
MELTING POINT F(C): NA POUR BOILING POINT F(C): > 600(316) VOC: RELATIVE DENSITY, 15/4 C: 0.871 SOLUM	< 4.00(Wt. %);	0.29 lbs/gal
RELATIVE DENSITY, 15/4 C: 0.8/1 SOLUI	BILITY IN WATER:	Negligible
VAPOR PRESSURE-mm Hg 20C: < 0.1	tlicked D-Deserm	
NA=Not Applicable NE=Not Estable FOR FURTHER INFORMATION, CONTACT YOU		
FOR FURTHER INFORMATION, CONTACT YOU	K MARKETING REPRI	ESENTATIVE.
***************** III. POTENTIALLY HAZARDO	OUS INGREDIENTS	*****
N		
None		
See Sections XII and XIII for regulatory a	and further compo	ositional data.

THRESHOLD LIMIT VALUE: 5.00 mg/m3 Suggeste		LISHED
EFFECTS OF OVEREXPOSURE: No significant e		
EFFECTS OF OVEREXPOSURE: NO SIGNIFICANCE	silects expected.	•
********* V. EMERGENCY AND FIRST A	ID PROCEDURES **	*****
FOR PRIMARY ROUTES		
EYE CONTACT: Flush thoroughly with water.		occurs, call a
nhysician		

INHALATION: Not expected to be a problem.

INGESTION: Not expected to be a problem when ingested. If uncomfortable seek medical assistance.

SKIN CONTACT: Wash contact areas with soap and water.



MATERIAL SAFETY DATA SHEET MSDS NUMBER 60.270-10

97367 (4-85)	WISDS NOWIBER 00,270	TAGE
24 HOUR EMERGENCY ASSISTANCE	GENERAL MSDS ASSISTANCE	
SHELL: 713-473-9461 CHEMTREC: 800-424-9300	SHELL: 713-241-4819	BE SAFE READ OUR PRODUCT
ACUTE HEALTH FIRE 1 1 1 1 1 1 1 1 1 1 1 1 1	G LEAST - 0 SLIGHT - 1 MODERATE - 2 HIGH - 3 EXTREME - 4	SAFETY INFORMATION AND PASS IT ON
*For acute and chronic health effects refer to t	the discussion in Section III	REQUIRES IT]
SECTION 1	AME	

SECTION	1 NAME
PRODUCT	SHELL TELLUS(R) OIL 68
CHEMICAL NAME	MIXTURE (SEE SECTION IIA)
CHEMICAL FAMILY	PETROLEUM HYDROCARBON; HYDRAULIC OIL
SHELL CODE	65211

SECT	TION II-A	PRODUCT/INGREDIENT		
NO.		COMPOSITION	CAS NUMBER	PERCENT
P	SHELL TELLUS OIL 68		MIXTURE	100
1 2 3	SOLVENT REFINED, MYDROTHEA SOLVENT DEWAXED HEAVY PARA MINOR ADDITIVES	TED MEAVY PARAFFINIC DISTILLATE FFINIC DISTILLATE	64742-64-7 64742-65-0 Mixture	0-99 0-99 <2

SECTION II-B	 ACUTE TOXICITY DATA	
NO. ACUTE OF	ACUTE DERMAL LD50	ACUTE INHALATION LCSO

NOT AVAILABLE

BASED UPON DATA AVAILABLE TO SHELL, COMPONENT 3 IN THIS PRODUCT IS NOT HAZARDOUS UNDER OSHA HAZARD COMMUNICATION (29 CFR 1910.1200).

SECTION III HEALTH INFORMATION

THE HEALTH EFFECTS NOTED BELOW ARE CONSISTENT WITH REQUIREMENTS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

EYE CONTACT

BASED ON COMPONENT INFORMATION, PRODUCT IS PRESUMED TO BE PRACTICALLY NON-IRRITATING TO THE EYES.

BASED ON COMPONENT INFORMATION, PRODUCT IS PRESUMED TO BE PRACTICALLY NON-IRRITATING TO THE SKIN. PROLONGED AND REPEATED CONTACT MAY RESULT IN SKIN DISORDERS SUCH AS DERMATITIS. OIL ACNE OR FOLLICULITIS. ACCIDENTAL RELEASE UNDER HIGH PRESSURE APPLICATIONS MAY RESULT IN INJECTION OF OIL INTO THE SKIN CAUSING LOCAL NECROSIS.

INHALATION

THE INHALATION OF VAPORS (GENERATED AT HIGH TEMPERATURES ONLY) OR OIL MIST MAY CAUSE A MILD IRRITATION OF THE MUCOUS MEMBRANES OF THE UPPER RESPIRATORY TRACT.



MATERIAL SAFETY DATA SHEET

MSDS NUMBER

60,050-10

PAGE

97367 (4-85) 24 HOUR EMERGENCY ASSISTANCE GENERAL MSDS ASSISTANCE **BE SAFE** SHELL: 713-473-9461 CHEMTREC: 800-424-9300 SHELL: 713-241-4819 READ OUR PRODUCT SAFETY INFORMATION ACUTE HEALTH . FIRE REACTIVITY . . AND LEAST - 0 SLIGHT - 1 MODERATE - 2 ه کښتم HAZARD RATING PASS IT ON HIGH - 3 EXTREME - 4 PRODUCT LIABILITY LAW *For acute and chronic health effects refer to the discussion in Section III SECTION I NAME SHELL TELLUS(R) OIL 32 PRODUCT . CHEMICAL | MIXTURE (SEE SECTION IIA) NAME CHEMICAL PETROLEUM HYDROCARBON; HYDRAULIC OIL FAMILY SHELL 65208 CODE SECTION II-A PRODUCT/INGREDIENT COMPOSITION CAS NUMBER NO. MIXTURE P SHELL TELLUS OIL 32 100 SOLVENT REFINED, MYDROTREATED MEAVY PARAFFINIC DISTILLATE SOLVENT DEWAXED HEAVY PARAFFINIC DISTILLATE 64742-54-7 0-89 64742-65-0 0-99 MINOR ADDITIVES 3 MIXTURE <2 SECTION II-B ACUTE TOXICITY DATA ACUTE ORAL LD50 ACUTE DERMAL LD50 ACUTE INHALATION LC50 P NOT AVAILABLE BASED UPON DATA AVAILABLE TO SHELL, COMPONENT 3 IN THIS PRODUCT IS NOT HAZARDOUS UNDER OSHA HAZARD COMMUNICATION (29 CFR 1910.1200).

SECTION III

HEALTH INFORMATION

THE HEALTH EFFECTS NOTED BELOW ARE CONSISTENT WITH REQUIREMENTS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

EYE CONTACT

BASED ON COMPONENT INFORMATION, PRODUCT IS PRESUMED TO BE PRACTICALLY NON-IRRITATING TO THE EYES.

SKIN CONTACT

BASED ON COMPONENT INFORMATION, PRODUCT IS PRESUMED TO BE PRACTICALLY NON-IRRITATING TO THE SKIN. PROLONGED AND REPEATED CONTACT MAY RESULT IN SKIN DISORDERS SUCH AS DERMATITIS. OIL ACNE OR FOLLICULITIS. ACCIDENTAL RELEASE UNDER HIGH PRESSURE APPLICATIONS MAY RESULT IN INJECTION OF OIL INTO THE SKIN CAUSING LOCAL NECROSIS.

INHALATION

THE INHALATION OF VAPORS (GENERATED AT HIGH TEMPERATURES ONLY) OR OIL MIST MAY CAUSE A MILD IRRITATION OF THE MUCOUS MEMBRANES OF THE UPPER RESPIRATORY TRACT.



MATERIAL SAFETY DATA SHEET

MSDS NUMBER 60,530-9 PAGE 97307 (4-85) 24 HOUR EMERGENCY ASSISTANCE GENERAL MSDS ASSISTANCE **BE SAFE** SHELL: 713-473-9461 CHEMTREC: 800-424-9300 SHELL: 713-241-4819 READ OUR PRODUCT SAFETY INFORMATION REACTIVITY ACUTE HEALTH . LEAST - 0 SLIGHT - 1 MODERATE - 2 AND HAZARD RATING ٥ لاسكا PASS IT ON EXTREME - 4 нюн - 3 PRÓDUCT LIABILITY LAW REQUIRES IT) *For acute and chronic health effects refer to the discussion in Section III SECTION I NAME PRODUCT SHELL TELLUS(R) DIL 10 CHEMICAL MIXTURE (SEE SEC. IIA) NAME CHEMICAL PETROLEUM HYDROCARBON; HYDRAULIC OIL SHELL 65203 CODE SECTION II-A PRODUCT/INGREDIENT NΩ COMPOSITION CAS NUMBER PERCENT SHELL TELLUS DIL 10 MIXTURE 100 SCLVENT REFINED, MYDROTREATED MIDDLE DISTILLATE SEVERELY HYDROTREATED LIGHT NAPHTHENIC DISTILLATE 0-100 64742-53-6 MINOR ADDITIVES MIXTURES SECTION II-B ACUTE TOXICITY DATA NO. ACUTE ORAL LD50 ACUTE DERMAL LD50 ACUTE INHALATION LC50 NOT AVATIABLE BASED UPON DATA AVAILABLE TO SHELL, COMPONENT 3 IN THIS PRODUCT IS NOT HAZARDOUS UNDER OSHA HAZARD COMMUNICATION (29 CFR 1910.1200). SECTION III HEALTH INFORMATION

THE HEALTH EFFECTS NOTED BELOW ARE CONSISTENT WITH REQUIREMENTS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

EYE CONTACT

BASED ON COMPONENT INFORMATION, PRODUCT IS PRESUMED TO BE PRACTICALLY NON-IRRITATING TO THE EYES.

SKIN CONTACT

BASED ON COMPONENT INFORMATION, PRODUCT IS PRESUMED TO BE PRACTICALLY NON-IRRITATING TO THE SKIN. PROLONGED AND REPEATED CONTACT MAY RESULT IN SKIN DISORDERS SUCH AS DERMATITIS. OIL ACNE OR FOLLICULITIS. ACCIDENTAL RELEASE UNDER HIGH PRESSURE APPLICATIONS MAY RESULT IN INJECTION OF OIL INTO THE SKIN CAUSING LOCAL NECROSIS.

INHALATION

THE INHALATION OF VAPORS (GENERATED AT HIGH TEMPERATURES ONLY) OR DIL MIST MAY CAUSE A MILD IRRITATION OF THE MUCOUS MEMBRANES OF THE UPPER RESPIRATORY TRACT.

MATERIAL SAFETY DATA SHEET			MSDS NUMBER C-5438
	PANY	CHEMTREC	
EMERGENCY TELEPHONE	405-424-3311	800-424-9300	
	I. PRODUCT IDE	ENTIFICATION	
PRODUCT		CHEMICAL NAME	
*Mystik R JT-6R High Temp Great	se	Complex Mixture	!
CHEMICAL FAMILY		FORMULA	
Petroleum Hydrocarbon Lubrica		Complex Mixture	
Last - 0 Slight - 1 Moderate - 2 High - 3 Extreme - 4	DES HEALTH CODE	FIRE CODE	0 -
	II SUMMARY C	OF HAZARDS	
	X N/A	NUMBER .	N/A
DOT Hazardous Material Yes No			
	III. HAZARDOUS	COMPONENTS	
INGREDIENT	% RANGE	PEL/TLV	HAZARO
			•
Petroleum Hydrocarbon Lubricant	>76	Oil Mist TWA 5 mg/M ³ /STEL 10	Respiratory mg/M ³ Irritant
inc, Organic Compound	1.0	Not Established	Eye & Skin Irritant
Soap and Proprietary Ingredient	s <19	Not Established	
Proprietary Ingredient	3–5	Not Established	Eye Irritant
rgredients are proprietary. Po	otential hazards	have been evaluated and	pertinent

formation has been included in Sections IV-VIII.

CiC Lubricants Company 100 S.Old Kirk Rd. P.O. Box 754 Geneva, IL 60134 1708)232-7900

MATERIAL SAFETY DATA SHEET

Product Code#:

013092

Cheatrec: (800) 424-9300

KFPA:

HMIS:

6-i-6

1-slight, 2-moderate, 3-serious, 4-severe

Product Name:

CLC LUBE HO-149-Z

Varning Statements:

EYE AND SKIN IRRITANT

Do Kot Ingest

Chemical Name:

MIXTURE

DOT Shipping Name: N/A

SARA Title III Section 313: N/A

ingredients:

PETROLEUM HYDROCARBON BLEND

TLV - 5 mg/H3 (OSHA TVA / ACGIH TVA)

64742-58-1 CAS #

EMERGENCY AND FIRST AID PROCEDURES

Flush with water for 15 minutes. If irritation persists, seek medical

attention.

Skin Contact:

Wash with soap and water. If irritation occurs, seek medical attention.

Inhaiation:

Remove to fresh air. If breathing difficulties arise, seek medical attention.

ingestion:

Consuit a Physician

Boiling point, F

ABOVE 400

Specific Gravity(water=1)

LIGHTER

* Volatile

NEGLIGIBLE

Truollity in Woter NEGLIGIBLE

Evoporation Ratelether=1)

SLOVER

Vocor Density N/D

Viscosity, SUS & 100 F

Various

Appearance and Odor

Light yellow to amber liquids

REC'D FEB 01 1994

17.

NFPA DESIGNATION 704

ARD RATING	- HEALTH	0	-
4=Extreme			
3=High	- FIRE	1	-
2=Moderate			
1=Slight	- REACTIVITY	0	-
0=Insignificant			
<u>-</u>	- SPECIFIC HAZARD	NONE	-

MATERIAL SAFETY DATA SHEET

SECTION 1 NAME AND PRODUCT

ADDRESS:

MANUFACTURER'S NAME: SUNNEN PRODUCTS COMPANY 7910 Manchester Ave. St. Louis, Mo. 63143

CONTACT: EMERGENCY PHONE NO: Chuck Korn 314-781-2105

United States of America

APPROVED BY: Terry Heller TITLE: Manager, Materials R/D

DATE:

December 15, 1989

CARCINOGENIC

TRADE NAME, COMMON NAME OR SPECIFICATION: CK448A GEAR OIL

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

CHEMICAL AND (COMMON) CAS OSHA MAX OSHA ACGIH NAME OF COMPONENTS NO. TWA STEL TWA ۷t%

Z1-A Z1-A mg/cu m

>95 MINERAL OIL, SEVERELY HYDROTREATED 64741-44-2 5(mist) NONE 5(mist)

OR SEVERELY SOLVENT REFINED

CONTAINS NO EXTREMELY HAZARDOUS SUBSTANCES PER SARA TITLE 111. COMPONENTS REGISTERED IN ACCORDANCE WITH TSCA. FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS.

These mixture ingredients are cited on the following lists:

Name CAS Citations MINERAL OIL 64741-44-2 2,4,5,6,7,9,10,11,12,13,14,16,17

ANIMAL FATTY OIL 8016-28-2 5,6,10,21,22

4,5,7,10,12,13,16,18, ASPHALT (PETROLEUM) 8052-42-4

1=IARC 2=OSHA 3=NTP 4=ACGIH 5=NFPA49 6=NFPA325M 7=DOT HMT 49CFR172.101 8=EPA 9=RTECS 10=MA RTK 11=AK RTK 12=CA RTK 13=FL RTK 14=IL RTK 15=ME RTK 16=MN RTK 17=NH RTK 18=NJ RTK 19=Cincinnati, OH RTK 20=Norwood, OH RTK 21=PA RTK 22=RI RTK 23=WV RTK

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)-----.904

VAPOR DENSITY (Air=1)------HEAVIER THAN AIR

EVAPORATION RATE-----NEGLIGIBLE

SOLUBILITY IN WATER------NEGLIGIBLE. MATERIAL IS COMPLETELY SOLUBLE IN COMMON HYDROCARBON OR CHLORINATED HYDROCARBON SOLVENTS SUCH AS MINERAL SPIRITS OR TRICHLOROETHANE.

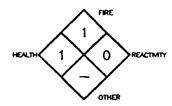
REACTIVITY IN WATER------NO HAZARDOUS REACTIONS

APPEARANCE AND ODOR------DARK GREEN LIQUID.

TION 4 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: NONE Refer to Section 7





SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME AND ADDRESS:

SUNNEN PRODUCTS COMPANY 7910 Manchester Ave. St. Louis, MO 63143 U.S.A. CONTACT: EMERGENCY PHONE NO: APPROVED BY:

TITLE: DATE: Chuck Korn 314-781-2105 Terry Heller

Manager, Materials R&D November 1, 1991

TRADE NAME: MB-30-5 OR MB-30-55 HONING OIL OR VGS-20657 SEAT CUTTING OIL

SECTION 2 INGREDIENTS/IDENTITY (PER 29 CFR 1910.1200(g))

CHEMICAL NAME OF COMPONENTS	CAS NO.	Wt.%	OSHA ZIA 8 HR TWA	OSHA Z1A STEL	OSHA ZIA SKIN mg/cu.m.	ACGIH TWA	CARCINOGENIC
PETROLEUM DISTILLATE PETROLEUM DISTILLATE SEVERELY	64741-44-2	TRADE SECRET	5(mist)	NONE	NONE	5(mist)	N(1)
HYDROTREATED, LIGHT NAPHTHENIC PETROLEUM DISTILLATE SEVERELY	64742-53-6	TRADE SECRET	5(mist)	NONE	NONE	5(mist)	N(1,2)
HYDROTREATED, HEAVY NAPHTHENIC	64742-52-5	TRADE SECRET	5(mist)	NONE	NONE	5(mist)	N(1)
ANIMAL FATTY OIL	8016-28-2	TRADE SECRET	NONE	NONE	NONE	NONE	N
SULFURIZED FAT	61790-49-6	TRADE SECRET	NONE	NONE	NONE	NONE	N
TOLYLTRIAZOLE	29385-43-1	TRADE SECRET	NONE	NONE	NONE	NONE	N

THE EXACT COMPOSITION OF THIS MATERIAL IS BEING WITHHELD AS A TRADE SECRET OF SUNNEN PRODUCTS COMPANY. FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS. (1) Mineral oil used in the occupation of metal machining is known to the state of California to cause cancer. (2) Note that the CAS number refers to the material prior to additional hydrotreating. No CAS number is available to describe the material after additional severe hydrotreating. The severely hydrotreated oil is not cited by IARC.

These mixture ingredients are cited on the following lists:

Name	CAS	Citations
MINERAL OIL	64741-44-2	2,4,5,6,9,10,11,12,13,14,16,17
MINERAL OIL	64742-53-6	2,4,5,6,9,10,11,12,13,14,16,17
MINERAL OIL	64742-52-5	2,4,5,6,9,10,11,12,13,14,16,17
SULFURIZED FAT	61790-49-6	NONE
ANIMAL FATTY OIL	8016-28-2	5,6,10,21,22
TOLYLTRIAZOLE	29385-43-1	NONE

1=IARC 2=OSHA 3=NTP 4=ACGIH 5=NFPA49 6=NFPA325M 7=DOT HMT 49CFR172.101 8=EPA SARA III 9=RTECS 10=MA RTK 11=AK RTK 12=CA RTK 13=FL RTK 14=IL RTK 15=ME RTK 16=MN RTK 17=NH RTK 18=NJ RTK 19=Cincinnati, OH RTK 20=Norwood, OH RTK 21=PA RTK 22=RI RTK 23=WV RTK

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

 REACTIVITY IN WATER
 No hazardous reactions.

 BOILING POINT
 >500 F (260 C)

 VAPOR DENSITY (Air=1)
 Heavier than air.

 VAPOR PRESSURE (mm Hg)
 <.1mm Hg @ 68 F (20 C)</td>

EVAPORATION RATE Negligible

SECTION 4 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: Store away from heat or flame. Read and follow container warnings. Refer to MSDS Section 7 & 8.

MSDS 03-6 Page 1 of 3



METAL LUBRICANTS CO.

METAL LUBRICANTS CO.

MELQUENCH HS 234 - BULK

PAGE 1

MATERIAL SAFETY DATA SHEET

METAL LUBRICANTS CO. 7050 LATHROP AVE. MARVEY, IL 60426

INFORMATION TELEPHONE NO.: 708-333-8900 800-255-3924

EMERGENCY TELEPHONE NO.:

REPARATION DATE: 01/25/91

REPLACES DATE: NEW MSDS

PREPARER: CDB

SECTION I - FRODUCT IDENTIFICATION

MELQUENCH HS 234 - BULK

4220003

SECTION II - HAZARDOUS INGREDIENTS

OCCUPATIONAL. SKIN VAPOR KNOWN OR DESIG- PRESSURE SUSPECTED WT. PERCENT EXPOSURE LIMITS CARCINOGEN 3 (TLV-STEL) NATION mmHg 20C CHEMICAL NAME CAS NUMBER IS LESS THAN (TLV-TWA)

ror intary additive

mixture

5 %

NO INFO

NO INFO

NΩ

0.0

ИO

N

N.A. - NOT APPLICABLE

SECTION III - PHYSICAL DATA

KOILING RANGE

)DOE:

UNKNOWN

VAPOR DENSITY

PETROLEUM ODOR - EVAPORATION RATE: -

IFFEARANCE

: AMBER LIQUID

OLATILE BY WEIGHT: < 0.1

% %

SOLUBILITY : INSOF PRODUCT DENSITY : 0.88

: INSOLUBLE

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

LAMMABILITY CLASSIFICATION:

FLASH POINT: 360 F (CLEVELAND OPEN CUP)

DOT - NOT REGULATED

EXTINGUISHING MEDIA: CARBON DIOXIDE DRY CHEMICAL ALCOHOL FOAM

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

MUSUAL FIRE AND EXPLOSION HAZARDS: DO NOT DIRECT A SOLID STREAM OF WATER INTO BURNING PRODUCT, THIS MAY CAUSE SPREADING AND INCREASED FIRE INTENSITY. COMBUSTION MAY PRODUCE: OXIDES OF CARBON, OXIDES OF SULFUR, AND INCOMPLETELY BURNED HYDROCARBONS IN THE FORM OF FUMES AND SMOKE.

3PL AL FIREFIGHTING PROCEDURES: WEAR A SELF-CONTAINED BREATHING APPARATUS JITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WHEN IGHTING FIRES.



=== METAL LUBRICANTS CO. ===

ETAL LUBRICANTS CO.

MELKUT 291 - BULK

PAGE 1

MATERIAL SAFETY DATA SHEET

ETAL LUBRICANTS CO. 7050 LATHROP AVE. GARVEY, IL 60426

INFORMATION TELEPHONE NO:: 708-333-8900 EMERGENCY TELEPHONE NO:: 800-255-3924

REPARATION DATE: 07/20/92

REPLACES DATE: 02/17/92

PREPARER: CDB

SECTION I - PRODUCT IDENTIFICATION

MELKUT 291 - BULK

3630003

SECTION II - HAZARDOUS INGREDIENTS

OCCUPATIONAL SKIN VAFOR KNOWN OR SUSPECTED EXPOSURE LIMITS DESIG- PRESSURE WT. PERCENT CAS NUMBER (TLV-TWA) (TLV-STEL) NATION mmHg 200 CARCINOGEN 3 CHEMICAL NAME IS LESS THAN

> THIS MATERIAL IS NOT CONSIDERED HAZARDOUS UNDER THE OSHA HAZARD COMMUNICATION STANDARD CFR TITLE 29 1910.1200

N.A. - NOT APPLICABLE

> SECTION III - PHYSICAL DATA

DOR : MILD SULFUR ODOR EVAPORATION RATE: UNKNOWN
PPEARANCE : DARK BROWN LIQUID
OLATILE BY WEIGHT: < 0.1 % SOLUBILITY : INSOLBUL
OLATILE BY VOLUME: < 0.1 % PRODUCT DENSITY : 0.90 VAPOR DENSITY : UNKNOWN

: INSOLBULE

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 340 F

LEL: N.A. UEL: N.A. LAMMABILITY CLASSIFICATION: (CLEVELAND OPEN CUP)

DOT - NOT REGULATED

ALCOHOL CARBON DIOXIDE DRY CHEMICAL FOAM XTINGUISHING MEDIA:

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

NUSUAL FIRE AND EXPLOSION HAZARDS: DO NOT DIRECT A SOLID STREAM OF WATER NTO BURNING PRODUCT, THIS MAY CAUSE SPREADING AND INCREASED FIRE NTENSITY. COMBUSTION MAY PRODUCE: DXIDES OF CARBON, OXIDES OF SULFUR, AND N' IPLETELY BURNED HYDROCARBONS IN THE FORM OF FUMES AND SMOKE.

PECIAL FIREFIGHTING PROCEDURES: WEAR A SELF-CONTAINED BREATHING APPARATUS LITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WHEN IGHTING FIRES.



MATERIAL AND MANUFACTURER IDENTIFICATION

Product name

TRIMO SOL

Material type

Water miscible cutting and grinding fluid concentrate

Classification/synonym(s)

Chemical emulsion/Soluble of

Product use

Coolant and lubricant in metal removal processes

Manufacturer address

MASTER CHEMICAL CORPORATION 501 West Boundary

Perrysburg, OH 43551-1263

Emergency telephone

419-874-7902

419-874-0684

REGULATORY INFORMATION

Department of Transportation

DOT Hazard Class: None TRIM® SQL is not classified as a hazardous material by DOT.

Resource Conservation and Recovery Act

EPA Hazardous Waste Number(s): None

TRIM® SOL Is not classified as a hazardous waste by EPA.

Toxic Substances Control Act

All TRIM® SOL Ingredients are listed on the TSCA inventory of Chemical Substances.

Superfund Amendments and Reauthorization Act of 1986

TRIM® SOL does not contain any SARA Title III Section 302/304 Extremely Hazardous Substances or Section 313 Toxic Chemicals.

3. INGREDIENT INFORMATION

COMPONENT	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	CAS#	% RANGE
petroleum o il	5 mg/m³ (mist)	5 mg/m³ (mist)	none	8002-05-9	30-40
petroleum sulfonate	none	none	none	61789-85-3	20-30
chlorinated alkene polymer	none	none	none	68410-99-1	20-30
nonionic surfactant	попе	none	none	68991-48-0	1-10
aromatic alcohol	none	none	none	68603-15-6	1-10
propylene glycol ether	none	none	noné	68603-15-6	1-10
propylene glycol	none	none	none	57 - 55 <i>-</i> 6	<1
substituted Indole	none	none	voue	63231-48-1	<1
blue-green dye	none	none	none	63231-48-1	<1
silicone defoamer	попе	none	none	63148-62-9	<1
water	กดกอ	noné	поле	7732-18-5	balance

The exact dismical identities and percentages of the raw materials used in TRIM® SOL are trade secrets. This information is being withheld as provided for in the Occupational Safety and Health Administration's Hazard Communication Rule (29 CFR 1910,1200).

<1

4.	PHYSICAL	DATA	
	point (at 760 mn		217%

217°F (103°C) Specific gravity (H₂0-1)

0.99 18.48%

Vapor pressure (psi) Vapor density (Air=1)

Not determined

Evaporation rate (butyl acetate=1)

Solubility in water

100%

pH of concentrate

Not applicable

Appearance |

Dark green viscous liquid with a mild, pleasant odor pH of freshly mixed emulsion with demineralized water at 5%

Percent volatiles by volume

9.1

1

Normal pH range for working solution

7.3-8.5

5. FIRE AND EXPLOSION HAZARD DATA

Flash point (test method)

305F (152°C) (COC) None (TCC)

Flammable limits Not determined

Extinguishing media

As appropriate for the surrounding fire; water (flood with water), dry chemical, CO₂ or "alcohol" foam

Special fire fighting

None

Unusual fire and explosion

None

procedures

hazards

REC'D FEB 01 1994

MATERIAL SAFETY DATA SHEET

SECTION I

HINSDALE CHEMICALS, INC.

1450 AMHERST COURT JOLIET, IL 60433

EMERGENCY TELEPHONE NUMBER: 1 (815) 723-3451

TRADE NAME: HINSCOOL 243

CAS # Propietary Mixture

CHEMICAL FAMILY: Synthetic Cutting and Grinding Fluid DATE PREPARED: 071091

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS None

PERCENT

TLV

SECTION III - PHYSICAL DATA

APPEARANCE & ODOR

SPECIFIC GRAVITY BOILING POINT SOLUBILITY IN WATER BLUE TRANSPARENT LIQUID

1.05 @ 25C 212 F

COMPLETE

SECTION IV - FIRE & EXPLOSION HAZARD DATA

FLASH POINT: NONE

EXTINGUISHING MEDIA: NOT APPLICABLE - WATER BASED SOLUTION

SPECIAL FIRE FIGHTING PROCEDURES: NONE UNUSUAL FIRE & EXPLOSION HAZARDS: NONE

SECTION V - HEALTH HAZARD

HEALTH HAZARD: NOT DETERMINED

EMERGENCY AND FIRST AID PROCEDURES: WATER AND SEEK MEDICAL ATTENTION.

IN CASE OF EYE CONTACT - FLUSH EYES WITH

SECTION VI - REACTIVITY

STABILITY: STABLE

CONDITIONS TO AVOID: NONE KNOWN INCOMPATABILITIES: CO2, NH3

HAZARDOUS DECOMPOSITION: None known HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VII - SPILL. LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Soak up with oil-absorbent compound. Treat as mildly alkaline detergent solution.

DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH STATE, LOCAL, AND FEDERAL REGULATIONS.

TO NORWOOD MARKINS GRAYMILLS CORPORATION ATTN: MATERIAL SAFETY DATA JEANETTE DANIELSON NEPA HAZARD RATING enforms to OSHA form No. 1215-0072 HEALTH = 1complies with DSHA hazard FLAMMABILITY = 2communication standard, 290FR1910.1200 REACTIVITY = 0 IDENTITY: Super Agitene - Cleaning compound. Combustible liquid. SECTION I MANUFACTURERS NAME: EMERGENC: #: 1-800-424-9300 Graymills Corporation TELEPHONE #: (312) 477-4100 ADDRESS: 1991 3705 N. Lincoln Avenue DATE PREPARED: Føbruary 5 Chicago, Illinois 60613 PREPARERS SIGNATURE: SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION OSHA ACGIH CAS# HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY/COMMON NAME(S): PÉL TLV Aliphatic Petroleum Distillate 300 PPM 100 PPM 64742-47-8 34590-94-8 Dipropylene Glycol Methyl Ether 100 PPM 100 PPM SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS 3180-SPECIFIC GRAVITY (WATER=1) BOILING POINT (F.): .78 388° VAPOR PRESSURE (@# Hg): @25°C 10.0 MELTING POINT: None VAPOR DENSITY (AIR=11: EVAPORATION RATE 4.8 <0.1 (N-BUTYL ACETATE=1) SOLUBILITY IN WATER: None Clear green - mild mineral spirits odor. APPEARANCE & ODOR: SECTION IV - FIRE AND EXPLOSION HAZARD DATA FLASH POINT (METHOD USED): FLAMMABLE LIMITS: LEL UEL 110°F Tag CC (ASTM D56) 0.6% 7.0% EXTINGUISHING MEDIA: CO(2) foam, dry chemicals, water spray (fog). SPECIAL FIRE FIGHTING PROCEDURES: Cool sealed drums with water to lessen chance of rupture. Wear self-contained breathing gear. Minimize breathing of gases, vapors or decomposition products. UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustible liquid, drums could fracture if heated. Autoignition temperature

REC'D FFB 0.1. 1994

approximately 450°F (232°C).



Material Safety Data Sheets

Division of Facilities Services

DOD Hazardous Material Information (ANSI Format) For Cornell University Convenience Only

6300 SAFETY-KLEEN AQUEOUS CLEANER

Section 1 - Product and Company Identification	Section 9 - Physical & Chemical Properties
Section 2 - Compositon/Information on Ingredients	Section 10 - Stability & Reactivity Data
Section 3 - Hazards Identification Including Emergency Overview	Section 11 - Toxicological Information
Section 4 - First Aid Measures	Section 12 - Ecological Information
Section 5 - Fire Fighting Measures	Section 13 - Disposal Considerations
Section 6 - Accidental Release Measures	Section 14 - MSDS Transport Information
Section 7 - Handling and Storage	Section 15 - Regulatory Information
Section 8 - Exposure Controls & Personal Protection	Section 16 - Other Information

The information in this document is compiled from information maintained by the United States Department of Defense (DOD). Anyone using this information is solely reponsible for the accuracy and applicability of this information to a particular use or situation.

Cornell University does not in any way warrant or imply the applicability, viability or use of this information to any person or for use in any situation.

Section 1 - Product and Company Identification 6300 SAFETY-KLEEN AQUEOUS CLEANER

Product Identification: 6300 SAFETY-KLEEN AQUEOUS CLEANER

Date of MSDS: 10/12/1994 Technical Review Date: 07/25/1996

FSC: 7930 NIIN: LIIN: 00F049274

Submitter: F BT **Status Code:** C

MFN: 01 Article: N Kit Part: N

Manufacturer's Information

Manufacturer's Name: SAFETY-KLEEN CORP

Post Office Box: N/K

Manufacturer's Address1: 1000 N RANDALL RD Manufacturer's Address2: ELGIN, IL 60123-7857

Manufacturer's Country: US

General Information Telephone: 800-669-5840/312-694-2700 Emergency Telephone: 800-752-7869(US)/312-942-5969(CAN) Emergency Telephone: 800-752-7869(US)/312-942-5969(CAN)

MISDS Preparer's Name: N/P

Proprietary: N Reviewed: Y Published: Y **CAGE: 30530**

Special Project Code: N

Preparer Information

Preparer's Name: SAFETY-KLEEN CORP

Preparer's Address1: 1301 GERVAIS ST, SUITE 300

Preparer's Address2: COLUMBIA, SC 29201

Preparer's CAGE: 30530 Assigned Individual: N

Contractor Information

Contractor's Name: SAFETY-KLEEN CORP

Contractor's Address1: 1301 GERVAIS ST, SUITE 300

Contractor's Address2: COLUMBIA, SC 29201

Contractor's Telephone: 1-803-933-4200

Contractor's CAGE: 30530

Section 2 - Compositon/Information on Ingredients 6300 SAFETY-KLEEN AQUEOUS CLEANER

Ingredient Name: ALCOHOLS, C12-14-SECONDARY, ETHOXYLATED

Ingredient CAS Number: 84133-50-6 Ingredient CAS Code: M

RTECS Number: RTECS Code: X

=WT: =WT Code:

=Volume: =Volume Code:

>WT: >WT Code:

>Volume: >Volume Code:

<WT: <WT Code:

<Volume: <Volume Code:

% Low WT: % Low WT Code: % High WT: % High WT Code:

% Low Volume: % Low Volume Code:

% High Volume: % High Volume Code:

% Text: 2

% Environmental Weight: Other REC Limits: N/K

OSHA PEL: N/K OSHA PEL Code: M **OSHA STEL: OSHA STEL Code:**

ACGIH TLV: N/K ACGIH TLV Code: M **ACGIH STEL: N/P ACGIH STEL Code:**

EPA Reporting Quantity: DOT Reporting Quantity: Ozone Depleting Chemical: Ingredient Name: VOLATILE ORGANIC CONTENT: 30 G/L

Ingredient CAS Number: Ingredient CAS Code: X RTECS Number: 9999999VO RTECS Code: M

=WT: =WT Code:

=Volume: =Volume Code:

>WT: >WT Code:

>Volume: >Volume Code:

<WT: <WT Code:

<Volume: <Volume Code:</p>
% Low WT: % Low WT Code:
% High WT: % High WT Code:

% Low Volume: % Low Volume Code: % High Volume: % High Volume Code:

% Text: N/K

% Environmental Weight: Other REC Limits: N/K

OSHA PEL: N/K OSHA PEL Code: M OSHA STEL: OSHA STEL Code:

ACGIH TLV: N/K ACGIH TLV Code: M ACGIH STEL: N/P ACGIH STEL Code:

EPA Reporting Quantity: DOT Reporting Quantity: Ozone Depleting Chemical:

Section 3 - Hazards Identification, Including Emergency Overview 6300 SAFETY-KLEEN AQUEOUS CLEANER

Health Hazards Acute & Chronic: EYES: LIQUID MAY CAUSE POSSIBLE INJURY, CONJUNCTIVITIS. SKIN: IRRITATION, DERMATITIS. INHALATION: RESPIRATORY TRACT IRRITATION. INGESTION: HARMFUL. MOUTH & THROAT IRRITATION, CNS DEPRESSION. BREATHING INTO THE LUNGS DURING INGESTION/VOMITING MAY CAUSE LUNG INJURY & POSSIBLY DEATH.

Signs & Symptoms of Overexposure:

STINGING, TEARING, ITCHING, SWELLING, REDNESS, IRRITATION, NAUSEA, ABDOMINAL DISCOMFORT, DIARRHEA, VOMITING, DRYING, CRACKING

Medical Conditions Aggravated by Exposure:

INDIVIDUALS W/PRE-EXISTING SKIN DISORDERS MAY HAVE INCREASED SUSCEPTIBILITY TO THE EFFECTS OF EXPOSURE.

LD50 LC50 Mixture: N/P

Route of Entry Indicators:

Inhalation: YES

Skin: NO Ingestion: YES

Carcenogenicity Indicators

NTP: NO IARC: NO OSHA: NO

Carcinogenicity Explanation: NONE

Section 4 - First Aid Measures 6300 SAFETY-KLEEN AQUEOUS CLEANER

First Aid:

EYES: FLUSH W/WATER FOR 15 MINS. MOVE AWAY FROM EXPOSURE INTO FRESH AIR. SKIN: WASH TWICE W/SOAP & WATER. INHALATION: REMOVE TO FRESH AIR. USE OXYGEN IF DIFFICULTY BREATHING/CPR IF BREATHING HAS STOPP ED. DON'T LEAVE VICTIM UNATTENDED. INGESTION: DRINK 2 GLASSES OF WATER. DON'T INDUCE VOMITING. IF SPONTANEOUS VOMITING OCCURS, KEEP HEAD BELOW HIPS TO AVOID ASPIRATION INTO LUNGS. (SEE SUPP)

Section 5 - Fire Fighting Measures 6300 SAFETY-KLEEN AQUEOUS CLEANER

Fire Fighting Procedures:

THIS IS AN AQUEOUS SOLUTION & ISN'T EXPECTED TO SUSTAIN COMBUSTION. NOT SENSITIVE TO MECHANICAL IMPACT/STATIC DISCHARGE.

Unusual Fire or Explosion Hazard:

N/R

Extinguishing Media:

WATER, ALCOHOL-RESISTANT FOAM

Flash Point: Flash Point Text: N/R

Autoignition Temperature:

Autoignition Temperature Text: N/A

Lower Limit(s): N/R Upper Limit(s): N/R

Section 6 - Accidental Release Measures 6300 SAFETY-KLEEN AQUEOUS CLEANER

Spill Release Procedures:

STOP LEAK W/O RISK. WEAR PROTECTIVE EQUIPMENT. CONTAIN AWAY FROM SURFACE WATERS & SEWERS. SORB W/COMPATIBLE SORBENT & SHOVEL INTO CLOSABLE CONTAINER FOR DISPOSAL.

Section 7 - Handling and Storage 6300 SAFETY-KLEEN AQUEOUS CLEANER

Handlin	g and	Storage :	Precautions:
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Other Precautions:

Section 8 - Exposure Controls & Personal Protection 6300 SAFETY-KLEEN AQUEOUS CLEANER

Repiratory Protection:

NONE REQUIRED W/NORMAL USE.

Ventilation:

NO SPECIFIC CONTROLS NEEDED.

Protective Gloves:

POLY VINYL CHLORIDE

Eye Protection: CHEMICAL GOGGLES

Other Protective Equipment: CLEAN WATER SHOULD BE AVAILABLE IN WORK AREAS TO FLUSH THE

EYES/SKIN. WEAR APPROPRIATE PROTECTIVE CLOTHING.

Work Hygenic Practices: REMOVE/LAUNDER CONTAMINATED CLOTHING/SHOES BEFORE REUSE. WASH SKIN TWICE W/SOAP & WATER.

Supplemental Health & Safety Information: USE GOOD PERSONAL HYGIENE. WASH THOROUGHLY W/SOAP & WATER AFTER HANDLING & BEFORE EATING, DRINKING/USING TOBACCO PRODUCTS. FIRST AID CONT'D: NO SPECIFIC ANTIDOTE AVAILABLE. ADMINISTER GASTRIC LAVAGE, IF WARRANTED, SHOULD BE PERFORMED BY QUALIFIED PERSONNEL. OBTAIN MEDICAL ATTENTION IN ALL CASES.

Section 9 - Physical & Chemical Properties 6300 SAFETY-KLEEN AQUEOUS CLEANER

HCC:

NRC/State License Number: Net Property Weight for Ammo: Boiling Point: Boiling Point Text: 212F

Melting/Freezing Point: Melting/Freezing Text: 32F Decomposition Point: Decomposition Text: N/K Vapor Pressure: 17.5 Vapor Density: 0.6

Percent Volatile Organic Content:

Specific Gravity: 1

Volatile Organic Content Pounds per Gallon:

pH: >7

Volatile Organic Content Grams per Liter:

Viscosity: N/P

Evaporation Weight and Reference: (BU AC=1): <1

Solubility in Water: COMPLETE

Appearance and Odor: CLEAR, COLORLESS/BLUE LIQUID W/NO ODOR

Percent Volatiles by Volume: N/K

Corrosion Rate: N/K

Section 10 - Stability & Reactivity Data 6300 SAFETY-KLEEN AQUEOUS CLEANER

Stability Indicator: YES Materials to Avoid:

N/K

Stability Condition to Avoid:

N/K

Hazardous Decomposition Products:

NONE

Hazardous Polymerization Indicator: NO Conditions to Avoid Polymerization:

N/K

Section 11 - Toxicological Information 6300 SAFETY-KLEEN AQUEOUS CLEANER

Toxicological Information:

N/P

Section 12 - Ecological Information 6300 SAFETY-KLEEN AQUEOUS CLEANER

Ecological Information:

Section 13 - Disposal Considerations 6300 SAFETY-KLEEN AQUEOUS CLEANER

Waste Disposal Methods:

CONTACT SAFETY-KLEEN REGARDING RECYCLING/PROPER DISPOSAL. DISPOSE OF IAW/LOCAL, STATE & FEDERAL REGULATIONS.

Section 14 - MSDS Transport Information 6300 SAFETY-KLEEN AQUEOUS CLEANER

Transport Information:

N/P

Section 15 - Regulatory Information 6300 SAFETY-KLEEN AQUEOUS CLEANER

SARA Title III Information:

N/P

Federal Regulatory Information:

State Regulatory Information:

N/P

Section 16 - Other Information 6300 SAFETY-KLEEN AQUEOUS CLEANER

Other Information:

N/P

HAZCOM Label Information

Product Identification: 6300 SAFETY-KLEEN AQUEOUS CLEANER

CAGE: 30530

Assigned Individual: N

Company Name: SAFETY-KLEEN CORP

Company PO Box:

Company Street Address1: 1301 GERVAIS ST, SUITE 300 Company Street Address2: COLUMBIA, SC 29201 US

Health Emergency Telephone: 800-752-7869(US)/312-942-5969(CAN)

Label Required Indicator: Y Date Label Reviewed: 12/16/1998

Status Code: C

Manufacturer's Label Number: **Date of Label:** 12/16/1998

Year Procured: N/K

Organization Code: G

Chronic Hazard Indicator: N/P Eve Protection Indicator: N/P Skin Protection Indicator: N/P

Respiratory Protection Indicator: N/P

Signal Word: N/P Health Hazard: Contact Hazard: Fire Hazard:

Reactivity Hazard:

8/8/2002 4:56:21 PM

Plastic MSDSs

THE POLYMER CORPORATION P.O. BOX 422 READING, PENNSYLVANIA

REC'DFEB 23 1994

Date Issued: 11/25/85
Date Revised: November 1

SECTION 1 - IDENTITY TRADE NAME: ACETAL SHAPES CHEMICAL FAMILY: POLYOXYMETHYLENE PRODUCT NAME: ACETAL PART NUMBER: ACE <u>SECTION 2 - HAZARDOUS INGREDIENTS</u> Ingredient Chemical Name Percent Common Name Number by wt. NO HAZARDOUS INGREDIENTS MELTING POINT, DEGREES F: >325 SPECIFIC GRAVITY: >1.4 PERCENT VOLATILES BY VOLUME: (1.0 SOLUBILITY IN WATER: Insoluble APPEARANCE AND ODOR: Translucent white to black solid, no odor. EXTINGUISHING MEDIA: Carbon dioxide, dry chemical or water SPECIAL FIRE FIGHTING PROCEDURES: Wear NIOSH listed, positive pressure, self-contained breathing apparatus. Avoid breathing fumes. Remove product from fire area, if possible, to avoid decredation. UNUSUAL FIRE AND EXPLOSION HAZARDS: Products of combustion may be toxic. INCOMPATIBILITY (Materials to avoid): Strong acids, bases and oxidizing agents. HAZARDOUS DECOMPOSITION PRODUCTS: Formaldehyde and oxides of carbon SECTION 5 - HEALTH HAZARDS



REGUECE 23 1994

GE Plastics-Structured Product

MATERIAL SAFETY DATA SHEET

01/01/94 PAGE 01/04

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

** THIS MSDS IS APPLICABLE FOR ALL COLORS AND PID NUMBERS OF THIS PRODUCT **

MANUFACTURER / SUPPLIER

General Electric Company One Plastics Avenue Pittsfield, MA 01201

GE Plastics Canada, Ltd. 2300 Meadowvale Blvd. Mississauga, ONT L5N 5P9

EMERGENCY TELEPHONE

(800) 447-4545 (24 hour) (812) 831-7444 (24 hour) Medical 0ther

(800) 447-4545 (24 hour) (812) 831-7444 (24 hour)

NON-EMERGENCY TELEPHONE

(800) 451-3147 or (800) 323-3783

PRODUCT IDENTIFIER:

PRODUCT DESCRIPTION:

LEXAN sheet or film.

Poly(bisphenol-A carbonate) (CAS#111211-39-3). May be used as received, processed to produce

PRODUCT USE: other articles, or as a component of other industrial products.

2. COMPOSITION/INFORMATION ON INGREDIENTS

This product consists primarily of high molecular weight polymers which are not expected to be hazardous.

This product is not subject to the OSHA Hazard Communication Standard (29CFR1910.1200). Information on this form is being provided as a service to our customers.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Plastic film or sheet. Can burn in a fire creating dense, toxic smoke. Molten plastic can cause severe burns. Fumes produced during melt processing may cause eye, skin, and respiratory tract irritation. Secondary operations, such as grinding, sanding or sawing can can produce dust which may present an explosion hazard. POTENTIAL HEALTH EFFECTS

EYE:

Dust and small partices may cause irritation due to mechanical action.

SKIN:

Dust and small partices may cause irritation

due to mechanical action. Not acutely toxic.

INGESTION:

INHALATION:

Inhalation of product is unlikely due to physical form.

CHRONIC/CARCINOGENICITY

NTP: DSHA: **TARC:** Not Tested Not Regulated Not Listed

THERMAL PROCESSING HAZARDS:

Hot or molten plastic can cause severe burns.

Processing fumes may cause irritation to the eyes, skin and respiratory tract, and in cases of severe over-exposure, nausea and headache.

Grease-like processing fume condensates on ventilation duct work, molds and other surfaces can cause irritation and injury to skin. MEDICAL RESTRICTIONS: There are no known human health effects aggravated by exposure to this product. However, certain sensitive individuals and individuals with respiratory impairments may be affected by exposure to components in the processing fumes.

NOTE:

Additives containing certain heavy metal



Rohm and Haas Company Independence Mall West Philadelphia, PA 19105 HEALTH EMERGENCY SPILL EMERGENCY OTHER CHEMTREC

: 215-592-3000 : 215-592-3000 : 800-424-9300 : 800-424-9300

MATERIAL SAFETY DATA SHEET

REC'DFEB 23 1994

PRODUCT IDENTIFICATION

PLEXIGLAS® MC Acrylic Sheet

Product code

-ALL-

898339-9

MSDS date

09/06/90

Supersedes

02/10/86

Rohm and Haas Hazard Rating		Scale
Toxicity Fire Reactivity Special	1 1 0	4=EXTREME 3=HIGH 2=MODERATE 1=SLIGHT 0=INSIGNIFICANT

COMPONENT INFORMATION

No.

CAS REG NO. AMT.(%)

P(EA/MMA)

9010-88-2

99.5, MINIMUM

Methyl methacrylate

80-62-6

0.5, MAXIMUM

EMERGENCY RESPONSE INFORMATION

FIRST AID PROCEDURES

Inhalation

Move subject to fresh air.

Eye Contact

Flush eyes with a large amount of water for at least 15 minutes.

FIRE FIGHTING INFORMATION

Unusual Hazards

Material as sold is combustible; burns vigorously with intense heat.

Extinguishing Agents

Use extinguishing media appropriate for surrounding fire.

Personal Protective Equipment

As in any fire, wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear.

E. I. DU PONT DE NEMOURS & CO. (INC.) WILMINGTON, DE 19696 POLYMER PRODUCTS DEPARTMENT

MATERIAL SAFETY DATA SHEET

IDENTIFICATION

INFORMATION TEL. NO. 800-441-3637

PRODUCT NAME

CHEMICAL NAME

Delrino acetal resin 500T NC-10, 500T BK-602, 100ST NC-10, 100ST BK-602

Elastomer modified polyoxymethylene. Elastomer modified formaldehyde homopolymer Polyacetal

[CH,0]

CAS REGISTRY NO. 9002-81-7 (resin component)

DEPARTMENT OF TRANSPORTATION

HAZARO CLASS Not Regulated SHIPPING NAME

N/A

HAZARDOUS COMPONENTS

MATERIAL Additives not hazardous by 29 CFR 1910.1200

N/A N/A

CAS

PEL N/A

OSHA

(TWA) AEL N/A

N/A

DU PONT

IS ANY CHEMICAL PRESENT IN THIS PRODUCT AT A CONCENTRATION OF 0,1% OR MORE GLASSIFIED AS A CARCINOGEN BY IARC, NTP OR OSHA? YES/NO No

Powder

PHYSICAL DATA

MELTING POINT 172-184°C SOLUBILITY IN WATER INSOLUBIE COLOR WVOLATILE N/A

FORM Solid

APPEARANCE Granules or

Black or white

ODOR Slight Pormaldehyde

FIRE AND EXPLOSION DATA

FLASH POINT N/A

FLASH IGNITION TEMP. 322°C

METHOD

TLV

ASTM 1929-62

FIRE AND EXPLOSION HAZARDS Burns with a colorless flame. Delring dust cloud ignition temperature 440°C.

EXTINGUISHING MEDIA Water, Carbon Dioxide, Foam, Dry Chemicals

SPECIAL FIRE FIGHTING INSTRUCTIONS Use self contained breathing apparatus and full protective clothing to protect from toxic and irritating vapors.

HAZARDOUS REACTIVITY

CONDITIONS TO AVOID Heating above 220°C - forms formaldehyde

MATERIALS TO AVOID Strong acids and bases (decomposes forming formaldehyde). Strong exidizing agents.

MAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS Formaldehyde is classified as an animal carcinogen by NTP. Butanedione, traces of CO, methylene diamiline (TLV 0.1 ppm)

PERSON RESPONSIBLE - J. B. Armitage

DATE REVISED September, 1985

NOTICE FROM DU PONT

The data in this MATERIAL BAFETY DATA SHEET relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process

1010C Fullerton Avenue Addizon, Illinois 60101 708,843.1750 FAX 708.543.4611

1010C Fullerton Avenue Addison, Illinois 60101 708.543.1780 FAX 708.543.4611

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MATERIAL SAFETY DATA SHEET 12
"CHEMFLUOR" TFE STOCK SHAPES
(ROD, SHEET, TAPES, TUBING)
PRODUCT

SECTION I	· •	-				
Manufacturer's Name:	CHEMPLAST, INC.			Emergency Telephon (201) 896-4700	é Na.	
Adoress:	150 DEY ROAD, WAYNE					
Chemical Name and Sy POIVTOTTAL	nphyms luoroethylene re	esin (T	PE) Tefl	me and Synonyms (hemfluo luon	r,
Chemical family Persiluoroca	rbon resin		Formula	2 - CF, m		
	•			£		
SECTION II - Hazar	dous Mixtures Does r	ot ann	ไป			
		: :	<u> </u>			TLV
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SECTION III - Physi	cal Data					
Bailing Point (PF.)		N.A.	Specific Gravity (F	120 = 11		2.2
Vapor Pressure Imm Hg	.}	N.A.	Percent Volatile			N.A.
Vapor Density (Air = 1) N.A. Evaporation Rate						
Solubility in Water		11.55.	= 1)			N.A.
F. Spearance and Oder	Inscluble			···		
	White solid, no	odor				
	i					
SECTION IV - Fire	and Explosion Hazard Data	1			 	
Flash Point (Method Us	N.A.		Flammable Limits	N.A.	Lei	Uel
Extinguishing Media						
Special Fire Fighting Pro	soldures					
						
Unusual Fire and Explos	tion Hazards Wi 7.7 htt	rr only	when igni	ted in 100%	oxvaen.	
and then emi	its toxic gases					·
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SECTION V - Health	Hazerd Data DOES	not app	oTÀ			
Threshold Limi: Value			<u>-</u>			
Elfents of Overesposure				·		
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Emergency and First Ale	Procedures			· ————		
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F5-(12)8C42L

Supplier List

Suppliers

Aqueous Cleaning Solution (1999 to present)	Safety-Kleen Corporation Elgin, IL	847-468-6530
EDM Oil (1970 to present)	Belmont Equipment Madison Heights, MI	248-588-7011
Hydraulic and Lubricating Oils (1970 to present)	Midtown Petroleum Bridgeview, IL	708-599-8700
Machining Coolant (1970 to present)	J&L Industrial Supply Livonia, MI	800-521-9520
Metals (1970 to present)	Ryerson Chicago, IL	773-762-4000
Mineral Spirits Solvent (1970 to 1999)	Graymills Chicago, IL	773-248-6825
Vibratory Deburring Compound (1970 to present)	Aamor Broadview, IL	708-343-5543

NOTE: The approximate time period for which the supplier provided the material is indicated in parentheses under the material name.

Chain of Title Search Results

Advanced Searches

Environmental Information Specialists



PROPERTY HISTORY: 1940 - Present Chain of Title

(Deeds, Environmental Disclosures, Environmental Liens, Leases/Subleases, Conveyances)

File Number: 11149731

Property Address: 2538 Wisconsin Avenue, Downers Grove, Illinois

Permanent Index Number: 08 12 302 010

Search Date: December 30, 2002

BRIEF LEGAL DESCRIPTION

LOT 2 IN ELLSWORTH PARK, THE AMES RESUBDIVISION IN THE SOUTH ½ OF SECTION 12, TOWNSHIP 38 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN DUPAGE COUNTY, ILLINOIS.

DOCUMENT	GRANTOR	GRANTEE	INSTRUMENT	DATE RECORDED
880595	Rudolph Ellsworth	Commonwealth Edison Company & Illinois Bell Telephone Company	Е	5/21/58
62-20004	Rudolph Ellsworth	Ellsworth Park Development Corporation	D	1/22/62
70-25260	Ellsworth Park Development Corporation	Norwood Marking & Equipment Company	WD	7/24/70
77-11100	Norwood Marking & Equipment Company	Marquerite Sinderson	WD	2/16/77
77-11101	Marquerite Sinderson	Downers Grove National Bank Tr 77-11	DinT	2/16/77
83-28176	Downers Grove National Bank Tr 77-11	Westglen Holding Company	D	5/12/83

This search meets or exceeds the standards set forth by ASTM.

This search was completed for all subject property from 1940-present. It can be assumed that either the first grantor listed above owned the property previous to the search period, purchased the property under a different name, or that a prior deed was mis-posted. If the property was purchased under a different name, due to the nature of the tracking system in the Recorder of Deeds Office it would be impossible to complete this search without prior knowledge of that name.

This search is of the land described herein by legal description, property index number or a street address furnished by the applicant. Advanced Searches assumes no liability for the accuracy of the legal description, property index number or street address so furnished.

Furthermore, this search is not a title insurance policy, guarantee, or opinion of title and should not be used as such. This search is of all said recorded documents in the recorder of deeds office in the county of the described property. While Advanced Searches takes utmost care in recording accurate data, it assumes no liability in the accuracy of public recorded property data.

D=deed DinT=deed in trust E=easement ED=environmental disclosure ExD=executor's deed INV=probate inventory L=lease QC=quit claim ShD=sheriff's deed TsD=trustee's deed WD=warranty deed

Prepared By
Advanced Searches • 6026 S. Lake Shore Drive • Cary, Illinois 60013
Phone: 847.921.1022 · Fax: 847.639.6077

2 File Number: 11149731

Environmental Permits

Please refer to the Instructions
for iFiling Notification before
completing this form within a
find the Resource Conservation
of the Resource Conservation



Notification of Regulated Waste

Date Received (For Official Use Only)

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For Official Use Only

	看便到的全面是智慧的
VIII. Type of Regulated Waste Activity (Mark X in the appropriate boxes.	Refer to instructions
A Hazardous Waste Activity The Inches	3B Used Oil Fuel Acimiles
Generator (See Instructions) A Greater than 1000kg/mo (2.200 lbs.) A Greater than 1000kg/mo (2.200 lbs.) B J100 to 1000 kg/mo (220 - 2.200 lbs.) C Jess than 100 kg/mo (220 lbs.) C Jess than 100 kg/mo (220 lbs.) A Generator Marketing to a Generator Marketing to a Generator Marketing to b Jother Marketers A 2-For own waste only B J-For commercial purposes Mode of I ransportation A J-Vulity Boiler	a. Generator Marketing to Burner b. LOther Marketer b. LOther Marketer c. Burner indicate device(s) 2 Type of Combustion Device 2 Unit Strial Boiler 2 Unitstrial Boiler 2 Unitstrial Furnace 1 2 Specification Used Oil Fuel Marketer at Cor On-site Burner) Who First Claims the Oil Meets the Specification
A. Characteristics of Nonlisted Hazardous Wastes, Mark 'X' in the boxes correspondents of the Nonlisted Hazardous Wastes, Mark 'X' in the boxes correspondents of the Nonlisted Hazardous Wastes, Mark 'X' in the boxes correspondents of the Nonlisted Hazardous Wastes, Mark 'X' in the boxes correspondents of the Nonlisted Hazardous Wastes, Mark 'X' in the boxes correspondents of the Nonlisted Hazardous Wastes, Mark 'X' in the boxes correspondents of the Nonlisted Hazardous Wastes, Mark 'X' in the boxes correspondents of the Nonlisted Hazardous Wastes, Mark 'X' in the boxes correspondents of the Nonlisted Hazardous Wastes, Mark 'X' in the boxes correspondents of the Nonlisted Hazardous Wastes, Mark 'X' in the boxes correspondents of the Nonlisted Hazardous Wastes, Mark 'X' in the boxes correspondents of the Nonlisted Hazardous Wastes, Mark 'X' in the boxes correspondents of the Nonlisted Hazardous Wastes, Mark 'X' in the boxes correspondents of the Nonlisted Hazardous Wastes, Mark 'X' in the boxes correspondents of the Nonlisted Hazardous Wastes, Mark 'X' in the N	inding to the characteristics of nonlisted hazardous
1. Ionitable 2. Corrosive 3. Reactive 4. EP Toxic	dous waste number(s) for the EP Toxic contaminant(s))
B. Listed Hazardous Wastes. (See 40 CFR 261.31 - 33. See instructions if you need	d to list more than 12 waste codes.)
7 8 9 9 10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5
C. Other Wastes. (State or other wastes requiring an I.D. number. See instructions.)	
X Certification	
I certify under penalty of law that I have personally examined and am fa and all attached documents, and that based on my inquiry of tho obtaining the information, I believe that the submitted information is that there are significant penalties for submitting false information imprisonment.	ise Individuals immediately responsible for a list true, accurate, and complete. I am aware from including the possibility of fines and
Signature - Name and Official Title (type or printle) Larry J. Kollins -	•
XI. Comments (1)	
Note: Mall completed form to the appropriate EPA Regional or State Office. (See :	Section III of the booklet for addresses.)

217/782-2113

P. O. Box 19506, Springfield, IL 62794-9506

PERMIT WITHDRAWAL

October 2, 1998

Norwood Marketing Systems Attn: Robert Hitchcock 2538 Wisconsin Ave. Downers Grove, IL 60515

Application No. :

87110042

ID. No.:

043030ADI

Applicant's Designation:

Received:

July 6, 1998

Operation of:

Metal Engraving Facility

Location:

2538 Wisconsin Ave., Downers Grove, IL

A review of the permit application referenced above for Metal Engraving indicates that this project does not require a permit pursuant to 35 Ill. Adm. Code 201.146(aa)(3). This determination is based upon the information submitted. The Agency hereby acknowledges the receipt of your letter and confirms the withdrawal of your operating permit in accordance with your request.

If you have any questions or need any assistance regarding this matter, please contact Jim Cobb at 217/782-2113.

Donald E. Sutton, P.E.

Manager, Permit Section

Division of Air Pollution Control

DES:JDC/82752jdc.doc

cc: Region 1



217/782-2113

OPERATING PERMIT

PERMITTEE

FEB 19 1988

Norwood Marking Systems Attention: Larry J. Kollins 2538 Wisconsin Avenue Downers Grove, Illinois

Application No.: 87110042

I.D. No.: 043030ADI Applicant's Designation:

Subject: Dust Collector

Date Received: November 13, 1987

Date Issued: February 16, 1988

Expiration Date: January 31, 1993

Location: 2538 Wisconsin Avenue, Downers Grove

Permit is hereby granted to the above-designated Permittee to OPERATE emission source(s) and/or air pollution control equipment consisting of Metal Engraving with Fabric Filter as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

This permit is issued based upon a minimal hourly emission rate and negligible annual emissions (less than 0.1 ton/year) of particulate matter from metal engraving.

Terry A. Sweitzer, P.E. Manager, Permit Section

Division of Air Pollution Control

TAS:JDC:ds:4636H/7

cc: Region 1



MOSTARDI-PLATT ASSOCIATES, INC.

Environmental Consultants

February 15, 1996

Mr. Larry Kollins
Facility Supervisor
Norwood Marking Systems, Inc.
2538 Wisconsin Avenue
Downers Grove, Illinois 60515

Dear Mr. Kollins:

Enclosed is the Smaller Source Operating Permit for the Norwood Marking Systems, Inc. facility located at 2538 Wisconsin Avenue in Downers Grove, Illinois (the Norwood facility). Due to the low level of regulated air emissions at the Norwood facility, the Illinois Environmental Protection Agency (IEPA) has issued this operating permit.

This operating permit is effective for life, unless a change in Norwood facility operations alters emission levels and/or additional regulated equipment is constructed/operated. Sign the Smaller Source Operating Permit in the area indicated, and submit the signed original the following address:

IEPA
Division of Air Pollution Control
Permit Section
P.O. Box 19276
Springfield, Illinois 62794-9276.

Additionally, be sure to maintain a signed copy of this permit and the required permitted source records on file at the Norwood facility to assist in the demonstration of compliance with applicable regulatory and permit requirements. If you have any questions, please feel free to contact me at (708) 993-2123.

Sincerely,

MOSTARDI-PLATT ASSOCIATES, INC.

Britt E. Wenzel

Senior Project Manager

2200 Churchill Road, Springfield, IL 62794-9276

217/782-5811

January 29, 1996

RE: I.D. 197040AAN

Submittal of Annual Emissions Report for Calendar Year 1994

Crispin Abacan Norwood Marking & Equipment Company Inc 2538 Wisconsin Ave Downers Grove, IL 60515-4230

The Annual Emissions Report (AER) form for calendar year 1994 was required to be submitted by May 1, 1995. As of this date, our records indicate that your company has not yet submitted this report.

Instructions and forms for completing this report were sent to your company approximately one year ago. Please submit your Annual Emissions Report for calendar year 1994 to the Agency by February 29, 1996, to the following address:

David J. Kolaz, Manager Compliance and Systems Management Section Bureau of Air Illinois EPA P.O. Box 19276 Springfield, Illinois 62794-9276

If you believe that our records on this matter are in error or if you need additional instruction booklets or forms for completing the report for calendar year 1994, please contact Lynda Bennett of my staff at 217/782-5811. If you need technical assistance in completing the AER form, please contact Ron Miller of my staff at 217/782-5811.

Please note that the instructions and forms for calendar year 1995 were recently mailed, and you may have already received them. The 1995 report is required to be submitted by May 1, 1996. The report that is the topic of this letter is for calendar year 1994 and is past due.

Sincerely,

David J. Kolaz, Manager

David J. Koloz

Compliance and Systems Management Section

Bureau of Air

P. O. Box 19506, Springfield, IL 62794-9506

January 16, 1996

Dear Sir or Madam,

This letter is to inform you of an opportunity to quickly simplify your air permitting requirements. This opportunity is available because the Agency sought and obtained authority from the General Assembly to issue lifetime permits to certain smaller sources. Such a permit would eliminate the requirement to periodically renew a permit. Renewal would only be required thereafter if requested in writing by the Agency for certain specified reasons.

We urge you to see if you can take advantage of this regulatory reform. If the information provided in your annual emission report indicates that your facility has total allowable emissions of less than 25 tons/year for all regulated pollutants combined, and less than 10 tons/year for any individual hazardous air pollutant, see the column labeled allowable emissions on page two of the annual emission report, your facility qualifies to be part of the smaller source operating permit program.

If you qualify, simply sign the enclosed permit that has already been signed by the Agency and is included in this packet. For this permit to be active, it needs to be signed by the Permittee, with one copy retained for your records, and the original submitted to the Agency along with your annual emission report.

If you have any questions concerning this letter, please contact a Permit Analyst at 217/782-2113.

Donald E Sutton

Donald E. Sutton, P.E.

Manager, Permit Section

Division of Air Pollution Control

DES:bsk

2200 Churchill Road, Springfield, IL 62794-9276

217/782-2113

OPERATING PERMIT FOR SMALLER SOURCE

PERMITTEE

NORWOOD MARKING SYSTEMS Attention: 2538 WISCONSIN AVENUE DOWNERS GROVE, IL 60515

<u>I.D. No.:</u> 043030ADI <u>Permit No:</u> 87110042

Included Permit(s): 87110042

<u>Date Issued:</u> May 1, 1996 <u>Expiration Date:</u> See Condition 1.

<u>Subject:</u> Smaller source operating permit

Location: 2538 WISCONSIN AVENUE, DOWNERS GROVE

This permit is hereby granted to the above-designated Permittee and shall become effective on the date issued above, upon receipt by the Agency of the certified original permit, to OPERATE emission source(s) and/or air pollution control equipment consisting of the equipment listed in the above referenced permit(s). This Permit is subject to standard conditions attached hereto and the following special condition(s):

- This Permit shall expire 180 days after the Agency sends a written request for the renewal of this Permit, unless the Permit is withdrawn or superseded by a revised Permit.
- 2. This permit is issued based on the total maximum permitted emissions of regulated pollutants not exceeding an aggregate of 25 tons/year and the maximum emissions of any single hazardous air pollutant (HAP) not exceeding 10 tons/year.
- 3. This permit incorporates the above listed permits by reference and the conditions contained therein. When this permit becomes effective, it removes your obligation to renew these permit(s), except when required pursuant to Condition 1.
- 4. The Agency's issuance of this permit does not relieve the Permittee from complying with all applicable regulations including the need to obtain any construction permits prior to the construction of any new emission units and/or air pollution control equipment, and the need to revise this operating permit to include the operation of any equipment that is required to be permitted, that is not currently covered by this permit.

This permit is effective May 1, 1996, provided the Agency receives the original copy signed by the Permittee certifying as specified below:

I certify that the original application(s) information remains true, correct, and current, that the conditions of this permit are acceptable, and that I am authorized to execute this application for permit for the above referenced facility

Signature	Date	

Printed Name and Title of Signer

If you have any questions concerning this letter, please contact a Permit Analyst at $217/\overline{78}2-2113$.

Donald E Sutton

Donald E. Sutton, P.E. Manager, Permit Section Division of Air Pollution Control

DES:bsk

CC: Region 1



APPLICATION FOR PERMIT REMEMBLYOPERATING PERMIT

AUSUST 01, 1992

217/732-2113

NGRWOOD MARKING SYSTEMS ATTN: LARRY J KULLING 2533 WISCONSIN AYENUE OOWHERS GROVE

·**ÎĽ 50515

APPLICATION NO: 87110042
ID NUMBER: 043030ADI
OPERATION OF:
DUST COLLECTOR

LOCATION:
NORWOOD MARKG & EQUIPMENT CO
2538 WISCONSIN AVENUE
DOWNERS GROVE IL 60515

THE ABOVE RESERENCED OPERATING PERMIT WILL EXPIRE ON JANUARY 31, 1993. THE AGENCY RECOMMENDS THAT YOU APPLY FOR A REMEMAL OF THIS OPERATING PERMIT AT LEAST NINETY (900"DAYS PRIOR TO ITS EXPIRATION.

IF YOUR OPERATION IS UNCHANGED, YOU MAY REQUEST TO RENEW YOUR PERMIT BY SIGNING IN THE SPACE PROVIDED BELOW, KEEPING ONE COPY FOR YOUR RECORDS, AND RETURNING THIS CORRESPONDENCE TO THE AGENCY. IF DATED AND SIGNED BY THE AGENCY THIS APPLICATION WILL BE RETURNED TO YOU AND WILL BE YOUR PERMIT.

IF THERE HAS BEEN A CHANGE OF ADDRESS, PLEASE INDICATE THIS BY GORRECTING THE ABOVE INFORMATION. IF THERE HAS BEEN A CHANGE OF OWNERSHIP, PROPER DOCUMENTATION MUST BE SUBMITTED TO ALLOW TRANSFER OF PERMIT(5). IF YOUR OPERATION HAS CHANGED FROM THAT DESCRIBED IN THE APPLICATION FILED WITH THIS AGENCY, THEN YOU MUST USE APPLICATION. (SEE ENCLOSED REQUEST FOR PERMIT FORMS! APC-209).

AUG 06 1992

IF THE OPERATION HAS BEEN PERMANENTLY DISCONTINUED, PLEASE SEND A LETTER
TO THE AGENCY WITHDRAWING THIS PERMIT. IF THE OPERATION PLEASE PROVIDE THE PERMIT NOWSER OF THE NEW PERMIT(S)
AND A LETTER OF EXPLANATION.

I CERTIFY THAT THE ORIGINAL PERMIT INFORMATION REHAINS TRUE, CORRECT, AND CURRENT AND THAT I AM AUTHORIZED TO EXECUTE THIS APPLICATION FOR PERMIT

SIGNATURE/

DATE

LARRY J. KOLLINS- PLANT MANAGER
PRINTED NAME AND TITLE OF SIGNER

FOR AGENCY USE ONLY

PERMIT EXPIRATION DATE: August 26, 1997

PERMIT IS GRANTED TO OPERATE THE ABOVE REFERENCED EQUIPMENT SUBJECT TO STANDARD CONDITIONS ATTACHED HERETO AND ANY SPECIAL CONDITIONS OF THE PREVIOUSLY GRANTED OPERATING PERMIT.

Sould E. Sutton / Her

COMALD E. SUTTON, P.E.

HANAGER, PERMIT SECTION

JUSTINO OF AIR POLLUTION CONTROL

. CC: REGION 110



217/789-3110

SPERATING PERMIT

PERMITTES

Morwood Marking Systems Attention: Larry J. Kollins 2538 Misconsin Avenue

Downers Grove, Illinois 60515

Application No.: 27110042

Applicant's Designation: Subject: Dust Collector

Date Issued: February 15, 1988

I.D. No.: 043030ADI

Date Received: Movember 13, 1987

Expiration Nate: January 21, 1993

Location: 2508 Wisconsin Avenue, Downers Grove

Permit is hereby granted to the above-designated Permittee to OPERATE emission scurce(s) and/or air pollution control equipment consisting of Metal Engraving with Fabric Filter as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

This permit is issued based upon a minimal hourly emission rate and negligible annual emissions (less than 0.1 ton/year) of particulate matter from metal engraving.

Terry A. Sweitzer, P.E.

Manager, Permit Section

Division of Air Pollution Control

TAS:JDC:ds:4636H/7

cc: Region T

pesa



DIVISION OF AIR POLLUTION AGENCE 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter III 1/2, Section 1039, Disclosure of this information is required under that Section, Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

					<u> </u>	FOR AGENO	CY USE ONLY		
	APPLICATION FOR	R A PERMIT		١.,	110	0430	BCADI		
CONSTRUCT X OPERATE					. NO.	87110042			
				PERM	IT NO.	0111			
NAME OF EQUIPMENT TO BE DUST COLLECTOR				DATE	DATE		11-13-87		
CON	STRUCTED OR OPERATED		(B)						
			<u> </u>						
ā.	NAME OF OWNER:		2a. NAME	OF OPERATOR:					
	NORWOOD MARKING SYSTEMS			NORWOOD MARKING SYSTEMS					
b.	b. STREET ADDRESS OF OWNER:			2b. STREET ADDRESS OF OPERATOR:					
	2538 Wisconsin Ave.			2538 Wisconsin Ave.					
ic.	CITY OF OWNER: Downers Grove			2c. CITY OF OPERATOR: Downers Grove					
ld.	STATE OF OWNER:			TATE OF OPERATOR:			2e. ZIP CODE:		
	IL	60515		IL			60515		
			 				·		
3 a .	NAME OF CORPORATE DIVISION OR PLANT: NORWOOD MARKING SYSTEMS		3b. STREET ADDRESS OF EMISSION SOURCE: 2538 Wisconsin Ave:						
					,		750 0005		
٠.	CITY OF EMISSION SOURCE: Downers Grove	3d. LOCATED WITHIN CITY LIMITS: YES NO	Se. IUWNS	MIP:	3f. COUNTY		3g. ZIP CODE:		
		NES LJ NO			DuPage	3	60515		
Ξ.	ALL CORRESPONDENCE TO: (TITLE AND/OR NA	ME OF INDIVIDUAL)	5. TELEP	HONE NUMBER	FOR AGENCY TO	CALL:	··· · · · · · · · · · · · · · · · · ·		
	Larry J. Kollins/Plant Superintendent			312-968-0646					
ś.	ADDRESS FOR CORRESPONDENCE: (CHECK ONLY ONE)			7. YOUR DESIGNATION FOR THIS APPLICATION: (C)					
	OWNER: Y OPERATOR	EMISSION SOURCE	L			=			
		•							
		500 A DECUTE AND OFFICE			201742112				
٤.	THE UNDERSIGNED HEREBY MAKES APPLICATION FURTHER CERTIFIES THAT ALL PREVIOUSLY SU	BMITTED INFORMATION REFE	RENCED IN TH	IS APPLICATI	ON REMAINS T	RUE, CORRECT			
	BY AFFIXING HIS SIGNATURE HERETO HE FURT	HER CERTIFIES THAT HE IS	AUTHORIZED	TO EXECUTE I	HIS APPLICAT	ION.			
	AUTHORIZED SIGNATURE(S):(D)								
	By Varret 1 holling ulic/87				RECEIV	EIVED			
	Larry J. Kollins TYPED OR PRINTED NAME OF SIGNER		BY S	IGNATURE		NOV 1 3 1987 DATE			
					1				
			Ť	TYPED OR PRINTED NAME OF SIGNER LEPA—DAPC—SPFLD.					
	Plant Superintendent TITLE OF SIGNER			TITLE OF SIGNER					
		SEVENAL THEODINATION ADOLL				00504750	TUTC F00W WAY		
(A)	THIS FORM IS TO PROVIDE THE AGENCY WITH ONLY BE USED TO REQUEST ONE TYPE OF PERM	IT - CONSTRUCTION OR OPE	RATION - AND	NOT BOTH.	MSIKUCIED UK	OPERATES.	THIS FURM MAT		
(8)	ENTER THE GENERIC NAME OF THE EQUIPMENT				PPFAR ON THE	PERMIT WHIC	TH MAY BE TSSUED		
,	PURSUANT TO THIS APPLICATION. THIS FORM	MUST BE ACCOMPANIED BY	OTHER APPLIC	ABLE FORMS A	ND INFORMATI	ON.	W. 10/1 DE 1220ED		
(C)	PROVIDE A DESIGNATION IN ITEM 7 ABOVE WH	ICH YOU WOULD LIKE THE A	GENCY TO USE	FOR IDENTIF	ICATION OF Y	OUR EONIPMEN	IT. YOUR		
	DESIGNATION WILL BE REFERENCED IN CORRES EXCEED TEN (10) CHARACTERS.	PUNDENCE FROM THIS AGENC	Y RELATIVE T	TO THIS APPLI	CATION. YOU	R DESIGNATIO	N MUST NOT		

IL 532-0238 APC: 200 Rev., 6/15/78

100% Recycled Paper

IF THE OWNER OR OPERATOR IS A CORPORATION, SUCH CORPORATION MUST HAVE ON FILE WITH THE AGENCY A CERTIFIED COPY OF A RESOLUTION OF THE CORPORATION'S BOARD OF DIRECTORS AUTHORIZING THE PERSONS SIGNING THIS APPLICATION TO CAUSE OR ALLOW THE CONSTRUCTION OR OPERATION OF THE EQUIPMENT TO BE COVERED BY THE PERMIT.

(D) THIS APPLICATION MUST BE SIGNED IN ACCORDANCE WITH PCB REGS., CHAPTER 2, PART 1, RULE 103(a)(4) OR 103(b)(5) WHICH STATES:
"ALL APPLICATIONS AND SUPPLEMENTS THERETO SHALL BE SIGNED BY THE OWNER AND OPERATOR OF THE EMISSION SOURCE OR AIR POLLUTION
CONTROL EQUIPMENT, OR THEIR AUTHORIZED AGENT, AND SHALL BE ACCOMPANIED BY EVIDENCE OF AUTHORITY TO SIGN THE APPLICATION."



STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

This agency is authorized to require this information under fillinoss Revised Statutes, 1979, Chapter 41%, Section 1039. Disclosure of this information is required under that section. Failure to do so may prevent this form from being processed and could result in your application being penied. This form has been approved by the Forms Management Center.

*CATA AND INFORMATION	
AIR POLLUTION CONTROL EQUIPMENT	

*THIS INFORMATION FORM IS FOR AN INDIVIDUAL UNIT OF AIR POLLUTION CONTROL EQUIPMENT OR AN AIR POLLUTION CONTROL SYSTEM.

1.	NAME OF OWNER: NORWOOD MARKING SYSTEMS	2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT, FROM OWNER):				
3.	STREET ADDRESS OF CONTROL EQUIPMENT: 2538 Wisconsin Ave.	4. CITY OF CONTROL EQUIPMENT:				
		Downers Grove, IL				
5.	NAME OF CONTROL EQUIPMENT OR CONTROL SYSTEM:	·				
	DUST COLLECTOR	S				

INSTRUCTIONS

- 1. COMPLETE THE ABOVE IDENTIFICATION.
- 2. COMPLETE THE APPROPRIATE SECTION FOR THE UNIT OF CONTROL EQUIPMENT, OR THE APPROPRIATE SECTIONS FOR THE CONTROL SYSTEM. BE CERTAIN THAT THE ARRANGEMENT OF VARIOUS UNITS IN A CONTROL SYSTEM IS MADE CLEAR IN THE PROCESS FLOW DIAGRAM.
- 3. COMPLETE PAGE 6 OF THIS FORM, EMISSION INFORMATION AND EXHAUST POINT INFORMATION.
- 4. EFFICIENCY VALUES SHOULD BE SUPPORTED WITH A DETAILED EXPLANATION OF THE METHOD OF CALCULATION, THE MANNER OF ESTIMATION, OR THE SOURCE OF INFORMATION. REFERENCE TO THIS FORM ANY RELEVANT INFORMATION OR EXPLANATION INCLUDED IN THIS PERMIT APPLICATION.
- 5. EFFICIENCY VALUES AND CERTAIN OTHER ITEMS OF INFORMATION ARE TO BE GIVEN FOR AVERAGE AND MAXIMUM OPERATION OF THE SOURCE EQUIPMENT. FOR EXAMPLE, "MAXIMUM EFFICIENCY" IS THE EFFICIENCY OF THE CONTROL EQUIPMENT WHEN THE SOURCE IS AT MAXIMUM OPERATION, AND "AVERAGE FLOW RATE" IS THE FLOW RATE INTO THE CONTROL EQUIPMENT WHEN THE SOURCE IS AT AVERAGE OPERATION.
- 6. FOR GENERAL INFORMATION REFER TO "GENERAL INSTRUCTIONS FOR PERMIT APPLICATIONS", APC-201.

DEFINITIONS

AVERAGE - THE VALUE THAT SUMMARIZES OR REPRESENTS THE GENERAL CONDITION OF THE EMISSION SOURCE OR THE GENERAL STATE OF PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY:

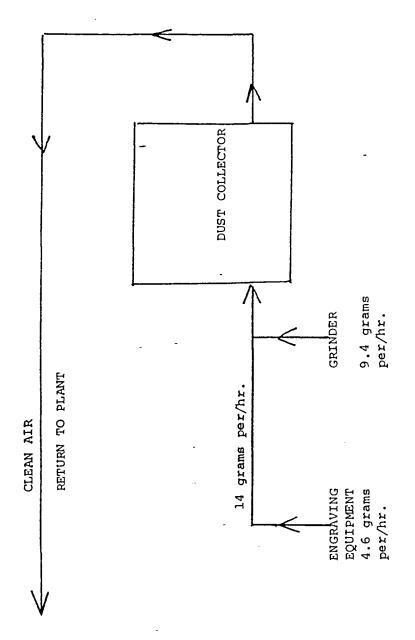
AVERAGE OPERATION - OPERATION TYPICAL OF THE PRECEDING TWELVE MONTH PERIOD, AS REPRESENTED BY AVERAGE OPERATING TIME AND AVERAGE RATES.

MAXIMUM - THE GREATEST VALUE ATTAINABLE OR ATTAINED FROM THE EMISSION SOURCE, OR THE PERIOD OF GREATEST OR UTMOST PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY:

MAXIMUM OPERATION - THE GREATEST EXPECTED OPERATION, AS REPRESENTED BY MAXIMUM OPERATING TIME AND MAXIMUM RATES.

CYCLONE		
1. FLOW DIAGRAM DESIGNATION(S) OF CYCLONE:		
2. MANUFACTURER:	3. MODEL:	
4. TYPE OF CYCLONE:	5. NUMBER OF CYCLONES IN EACH MULTIPLE CYCLONE:	
SIMPLE MULTIPLE	`	
6. DIMENSION THE APPROPRIATE SKETCH (IN INCHES) OR PROVIDE A	DRAWING WITH EQUIVALENT INFORMATION:	
TANGENTIAL INLET CYCLONE		
	AXIAL INLET CYCLONE (INDIVIDUAL CYCLONE OF MULTIPLE CYCLONE)	
GAS OUT	and an indexined creational,	
A		
→	GAS OUT	
GAS	GAS IN VANE ANGLE DEGREES	
SECTION		
	SECTION	
PLAN		
NOT TO	D SCALE	
A V ERAGE OPERATION OF SOURCE MAXIMUM OPERATION OF SOURCE		
7. GAS FLOW RATE:	9. GAS FLOW RATE:	
8. EFFICIENCY OF CYCLONE (SEE INSTRUCTION 4): %	SCFM 10. EFFICIENCY OF CYCLONE (SEE INSTRUCTION 4): %	

SCRUBBER				
1. FLOW DIAGRAM DESIGNATION(S) OF SCRUBBER:				
2. MANUFACTURER:		3. MODEL NAME AND N	UMBER:	
4. TYPE OF SCRUBBER: HIGH ENERGY: GAS STREAM PRESSURE DROP INCH. H ₂ O				
PACKED: PACKING TYPE, PACK	ING SIZE	, PACKED HEIGHT	IN.	
SPRAY: NUMBER OF NOZZLES	, NOZZLE PRESSUR	E PSIG		
OTHER: SPECIFY ATTACH D	ESCRIPTION AND S	KETCH WITH DIMENSIONS		
5. TYPE OF FLOW: COCURRENT COUNTERCURRENT [
6. SCRUBBER GEOMETRY: LENGTH IN DIRECTION OF GAS FLOWIN., CROSS-SECTIONAL AREASQUARE IN.				
7. CHEMICAL COMPOSITION OF SCRUBBANT:				
AVERAGE OPERATION OF SOURCE MAXIMUM OPERATION OF SOURCE				
8. SCRUBBANT FLOW RATE:	GPM	12. SCRUBBANT FLOW RAT	E:	GPM
9. GAS FLOW RATE:	SCFM	13. GAS FLOW RATE:	 	SCFM
10. INLET GAS TEMPERATURE:	°F	14. INLET GAS TEMPERATU	/RE:	°F
11. EFFICIENCY OF SCRUBBER (SEE INSTRUCTION 4): % PARTICUL ATE	PL CASECIE	15. EFFICIENCY OF SCRUB	BER (SEE INSTRUCTION 4): RTICULATE	
1. FLOW DIAGRAM DESIGNATION(S) OF "OTHER TYP	OTHER TYPE OF COI			
2. GENERIC NAME OF "OTHER" EQUIPMENT:	3. MANUFACTU	RER:	4. MODEL NAME AND	NUMBER:
5. DESCRIPTION AND SKETCH, WITH DIMENSIONS A	ND FLOW RATES, C	of "Other" equipment:		
		-		
AVERAGE OPERATION OF SOURCE MAXIMUM OPERATION OF SOURCE				
6. FLOW RATES: GPM SO	CFM	8. FLOW RATES:	GPM	SCFM
7. EFFICIENCY OF "OTHER" EQUIPMENT (SEE INSTRUC	TION 4):	9. EFFICIENCY OF "OTHE	R" EQUIPMENT(SEE INSTRU	JCTION 4):



001 70 367

AGET MANUFACTURING COMPANY



1408 EAST CHURCH STREET • P.O. BOX 248 • ADRIAN, MICHIGAN 49221 • FAX 517 263-7154 • PHONE 517 263-5781

October 28, 1987

Norwood Marking Machine 2538 Wisconsin Downers Grove, IL 60515

Attention: Debbie

Dear Debbie:

The DUSTKOP Model 30N51-D1, serial #4323, shipped 5/2/78 is illustrated on print 3051-C-320. This print also contains the parts list and air handling capacity.

The FT40-Dl DUSTKOP After-Filter, serial #3676, shipped 5/2/78 is illustrated on print FT40-C-314. This model was supplied with a motor shaker, and has 383 square feet of filter area. The standard filter media supplied is cotton satéen.

The normal operating range for most applications is $1800~\rm{CFM}$ at 6.65" static pressure to $2100~\rm{CFM}$ at 5.1" of external static pressure. These are marked on the corner of the print.

Yours very truly,

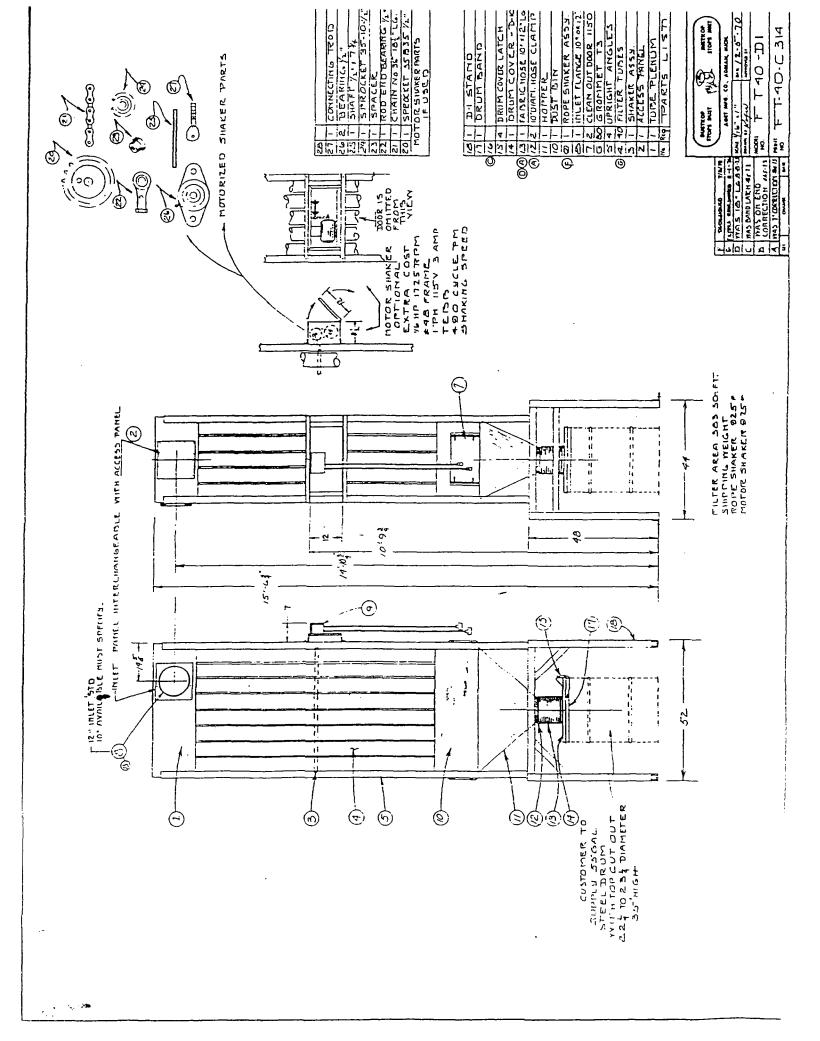
AGET MANUFACTURING COMPANY

Ray Wakefield

President

RW:kg

Enclosures





ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276

Mary A. Gade, Director

217/782 - 0610

December 7, 1998

Mr. Robert Hitchcock
Operations Manager
Norwood Marking Systems
2538 Wisconsin Avenue
Downers Grove, Illinois 60515-4293

Tandal Control Control

Re:

Norwood Marking Systems -- Downers Grove Facility

Applicability of the Illinois General NPDES Permit for Industrial Storm Water Discharges

Termination of Permit No. ILR000175

Dear Mr. Hitchcock:

Thank you for your letter of November 12, 1998 regarding the need for an NPDES permit for the discharge of storm water associated with industrial activities from your Downers Grove facility.

Our records are inconsistent regarding the Standard Industrial Classification (SIC) code for this facility, but they indicate that it is either in Major Group 34, Fabricated Metal Products, Except Machinery and Transportation Equipment, or in Major Group 35, Industrial and Commercial Machinery and Computer Equipment. In either case, the facility is in category xi of 40 CFR 122.26 (b)(14), and does not need an NPDES storm water permit if industrial activities are not exposed to storm water.

We understand that no material handling equipment and activities, raw materials, intermediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water. Under the provisions of 40 CFR 122.26 (b)(14)(xi), facilities that report having no exposure of storm water to the above-mentioned materials or activities are not required to obtain this permit, and Permit No. ILR000175 is hereby terminated effective immediately.

I hope this adequately responds to your request, but if you have any questions or comments regarding the above, or if we can be of any further assistance, please contact Chuck Fellman at the above telephone number and address.

Very truly yours,

Thomas G. McSwiggin, P. E.

Manager, Permit Section

Division of Water Pollution Control

TGM:CWF:\norwood

cc: Rec

Records Unit FOS - Maywood

Mary A. Gade, Director 217/782-0610

2200 Churchill Road, Springfield, IL 62794-9276

May 5, 1993

LARRY KOLLINS
NORWOOD MARKING SYSTEMS
2538 WISCONSIN AVENUE
DOWNERS GROVE, IL. 60515

Re: NORWOOD MARKING SYSTEMS - DOWNERS GROVE

NPDES Permit No. ILR000175

Notice of Coverage under General Permit

Dear NPDES Permittee:

We have reviewed your application and determined that storm water discharges associated with industrial activity (excluding construction sites) are appropriately covered by the attached General NPDES Permit issued by the Agency.

The permit as issued covers application requirements, a storm water pollution prevention plan, and reporting requirements. The storm water pollution prevention plan must be completed within 180 days of this notification of coverage and shall provide for compliance within 365 days of this notification of coverage.

Failure to meet any portion of the permit could result in civil and/or criminal penalties. The Agency is ready and willing to assist you in intrepreting any of the conditions of the Permit as they relate specifically to your discharge.

The Permit is applied to your discharge effective on the date of this letter. You have the right to appeal the Agency's decision to cover your discharge by the General Permit to the Illinois Pollution Control Board within a 30 day period following the date of this letter.

This letter shows your facility permit number below your facility name. Please reference this number in all future correspondence. Should you have any questions concerning the Permit, please contact the Permit Section at 217/782-0610.

Very truly yours,

Thomas G. McSwiggin, P.E. Manager, Permit Section

Division of Water Pollution Control

TGM: ANT: a

Enclosure

cc: Records Unit

Illinois Environmental Protection Agency Division of Water Pollution Control 2200 Churchill Road P.O. Box 19276 Springfield, Illinois 62794-9276 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM NPDES Permit

Expiration Date: October 1, 1997 Issue Date: October 16, 1992

Discharges authorized by this General Permit: In compliance with the provisions of the Illinois Environmental Protection Act, the Illinois Pollution Control Board Rules and Regulations (35 Ill. Adm. Code, Subtitle C, Chapter 1) and the Clean Water Act, the following discharges may be authorized by this permit in accordance with the conditions herein:

Discharges of storm water associated with industrial activity, as defined and limited herein. Storm water means storm water runoff, snow melt runoff, and surface runoff and drainage.

This general permit regulates only storm water discharges from a facility. Other discharges such as process wastewater or cooling water shall be regulated by other NPDES permits.

Receiving waters: Discharges may be authorized to any surface water of the State.

To receive authorization to discharge under this general permit, a facility operator must submit an application as described in the permit conditions to the Illinois Environmental Protection Agency. Authorization, if granted, will be by letter and include a copy of this permit.

Thomas G. McSwiggin, P.E. Manager, Permit Section

Division of Water Pollution Control

CONTENTS OF THIS GENERAL PERMIT

A.	Applicability of this General Permit	Page	2
8.	Types of Discharges not Covered by this Permit	Page	3
c.	Application Requirements	Page	4
D.	Storm Water Pollution Prevention Plan	Page	5
Ε.	Construction Authorization	Page	8
F.	Reporting	Page	8
G.	Termination of Coverage Under this Permit	Page	8
н.	Renewa1	Page	9
ī.	Definitions .	Page	9

A. APPLICABILITY OF THIS GENERAL PERMIT

This permit is applicable to new and existing storm water discharges associated with industrial activity in the State of Illinois from the facilities listed below.

- 1. Discharges of storm water from facilities whose process wastewater discharges are subject to new source performance standards or toxic pollutant effluent standards under 40 CFR Subchapter N, except:
 - a. discharges subject to new source performance standards or toxic pollutant effluent standards and described in paragraph A.8. below which do not have materials or activities exposed to storm water:
 - b. discharges subject to storm water effluent limitations guidelines listed in B.1. of this permit.
- 2. Discharges from manufacturing facilities in the following categories:
 - SIC 24 (Lumber and wood products except furniture) except SIC 2434 (Wood kitchen cabinets)
 - SIC 26 (Paper and allied products) except SIC 265 (Paperboard containers and boxes from purchased paperboard) and SIC 267 (Converted paper and paperboard products, except containers and boxes)
 - SIC 28 (Chemicals and allied products) except SIC 283 (Drugs)
 - SIC 29 (Petroleum refining and related industries), except discharges subject to 40 CFR 419
 - SIC 311 (Leather tanning and finishing)
 - SIC 32 (Stone, clay, glass, and concrete products) except SIC 323 (Glass products made of purchased glass)
 - SIC 33 (Primary metal industries)
 - SIC 3441 (Fabricated structural metal)
 - SIC 373 (Ship and boat building and repairing)
- Facilities classified as SIC Codes 10-14 (Mineral Industry) including active or inactive mining operations and oil and gas exploration, production, processing, treatment operations, or transmission facilities, except discharges subject to 40 CFR 434, 436, or 440.
- 4. Landfills, land application sites (excluding land application sites which utilize agricultural land), and open dumps that receive or have received any industrial wastes (waste that is received from any of the facilities described in 40 CFR 122.26(b)(14).
- Facilities involved in the recycling of materials including metal scrapyards, battery reclaimers, salvage yards, and automobile junkyards including but not limited to SIC 5015 (Used motor vehicle parts) and SIC 5093 (Scrap and waste materials)
- 6. Transportation facilities-portions of the following facilities involved in vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling, and lubrication), equipment cleaning operations, or airport deicing operations:
 - SIC 40 (Railroad transportation)
 - SIC 41 (Local and suburban transit and inter-urban highway passenger transportation)
 - SIC 42 (Motor freight transportation and warehousing) except SIC 4221-4225 (Farm product warehousing and storage, refrigerated warehousing and storage, general warehousing and storage)
 - SIC 43 (United States Postal Service)
 - SIC 44 (Water transportation)
 - SIC 45 (Transportation by air)
 - SIC 5171 (Petroleum bulk stations and terminals-wholesale)

- 7. Treatment Works treating domestic sewage with a design flow of 1 MGD or more, or required to have an approved pretreatment program; includes sludge or wastewater treatment devices or systems used in the storage, treatment, recycling, and reclamation of municipal or domestic sewage, and land dedicated to sludge disposal located within the confines of the facility; excludes off-site sludge management lands, farm lands, and gardens.
- 8. Facilities in the following SIC Codes with storm water discharges from areas (except access roads and rail lines) where material handling equipment or activities, raw materials, intermediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water.

```
SIC 20
            (Food and kindred products manufacturing or processing)
 SIC 21
            (Tobacco products)
 SIC 22
            (Textile mill products)
 SIC 23
            (Apparel and other finished products made from fabrics and similar materials)
 SIC 2434 (Wood kitchen cabinets)
SIC 25 (Furniture and fixtures
            (Furniture and fixtures)
 SIC 265
            (Paperboard containers and boxes)
 SIC 267
            (Converted paper and paperboard products, except containers and boxes)
 SIC 27
            (Printing, publishing, and allied industries)
 SIC 283
            (Drugs)
 SIC 285
            (Paints, varnishes, lacquers, enamels, and allied products)
 SIC 30
            (Rubber and miscellaneous plastics products)
· SIC 31
           (Leather and léather products) except SIC 311 (Leather tanning and finishing)
 SIC 323
            (Glass products, made of purchased glass)
 SIC 34
            (Fabricated metal products, except machinery and transportation equipment) except
            SIC 3441 (Fabricated structural metal)
 SIC 35
            (Industrial and commercial machinery and computer equipment)
            (Electronic and other electrical equipment and components, except computer equipment)
 SIC 37
            (Transportation equipment) except SIC 373 (Ship and boat building and repairing)
 SIC 38
            (Measuring, analyzing, and controlling instruments; photographic, medical, and
           optical goods; watches and clocks)
 SIC 39
            (Miscellaneous manufacturing industries)
 SIC 4221-25 (Farm products warehousing and storage, refrigerated
           warehousing and storage, general warehousing and storage)
```

B. TYPES OF DISCHARGES NOT COVERED BY THIS PERMIT

This permit is not applicable to storm water discharges from the following facilities:

1. Discharges subject to storm water effluent limitations guidelines in the following categories;

Cement Manufacturing (40 CFR 411)
Feedlots (40 CFR 412)
Fertilizer Manufacturing (40 CFR 418)
Petroleum Refining (40 CFR 419)
Phosphate Manufacturing (40 CFR 422)
Steam Electric (40 CFR 423)
Coal Mining (40 CFR 434)
Mineral Mining and Processing (40 CFR 436)
Ore Mining and Dressing (40 CFR 440)
Asphalt Emulsion (40 CFR 443)

- 2. Hazardous waste treatment, storage or disposal facilities.
- 3. Steam electric power generating facilities, including coal handling sites.
- 4. Construction activity including clearing, grading and excavation activities.
- 5. Storm water discharges associated with industrial activity from facilities with an existing NPDES individual or general permit for the storm water discharges.
- 6. Storm water discharges associated with industrial activity which are identified by the Agency as possibly causing or contributing to a violation of water quality standards.
- Storm water discharges associated with inactive mining or inactive oil and gas operations
 occurring on Federal Tands where an operator cannot be identified.
- 8. Storm water discharges that the Agency determines are not appropriately covered by this general permit.

This permit does not authorize the discharge of hazardous substances or oil resulting from an on-site spill, and does not supercede any reporting requirements for spills or releases of hazardous substances or oil.

C. APPLICATION REQUIREMENTS

- Dischargers seeking coverage under this general permit shall provide the Illinois Environmental Protection Agency (IEPA) with the following information:
 - a. A completed IEPA Notice of Intent form, accompanied by quantitative sampling data for the storm water discharge(s) if available; or
 - b. A completed U.S. EPA Form 1, including Form 2F and quantitative sampling data if available; or
 - c. A completed U.S. EPA Notice of Intent form, accompanied by quantitative sampling data for the storm water discharge (s) if available.
 - d. Participation in a group application accepted by U.S. EPA shall also be considered as an application for coverage under this general permit, subject to the applicability provisions of this permit.
- Quantitative sampling data as required by U.S. EPA Form 2F for storm water discharges from the
 following facilities is required to be submitted, unless the facility is a participant in a
 group application accepted by U.S. EPA. Applications submitted without sample results will be
 considered complete if sample results are submitted before April 1, 1993.
 - a. Facilities subject to reporting requirements under Section 313 of EPCRA for chemicals classified as "Section 313 water priority chemicals": Storm water discharges that come into contact with any equipment, tank, container, or other vessel or area used for storage of a Section 313 water priority chemical, or located at a truck or rail car unloading area where a Section 313 water priority chemical is handled.
 - b. Facilities classified as SIC 33 (Primary Hetal Industries).
 - c. Active or inactive landfills, land application sites, or open dumps without a stabilized final cover which have received any industrial wastes.
 - d. Wood treatment facilities: Storm water discharges from areas that are used for wood treatment, wood surface application, or storage of treated or surface protected wood.
 - e. Coal pile runoff at industrial facilities other than coal mines.
 - f. Battery reclaiming facilities: storm water discharges from areas used for storage of lead acid batteries, reclamation products, or waste products, and areas used for lead acid battery reclamation.
 - g. Airports with over 50,000 flight operations per year: storm water discharges from aircraft or airport deicing areas.
 - h. Heat packing plants, poultry packing plants, and facilities that manufacture animal and marine fats and oils.
 - Facilities classified as SIC 28 (Chemicals and Allied Products) and SIC 30 (Rubber and Hiscellaneous Plastics Products): Storm water discharges that come into contact with solid chemical storage piles.
 - j. Automobile junkyards: Storm water discharges exposed to over 250 auto/truck bodies with drivelines, over 250 drivelines, or any combination thereof (in whole or in parts); over 500 auto/truck units (bodies with or without drivelines in whole or in parts); or over 100 units per year are dismantled and drainage or storage of automotive fluids occurs in areas exposed to storm water.
 - k. Lime manufacturing facilities: storm water discharges that have come into contact with lime storage piles.
 - Cement manufacturing facilities and cement kilns: Storm water discharges other than those subject to 40 CFR 411.
 - m. Ready-mixed concrete facilities.
 - n. Ship building and repairing facilities.
- 3. When a facility has two or more outfalls that, based on consideration of features and activities within the area drained by the outfall, the permittee reasonably believes discharge substantially identical effluents, the permittee may sample the effluent of one such outfall and report that quantitative data also applies to the substantially identical outfalls. If the applicant is requesting approval to sample a representative outfall, identification of all

storm water outfalls considered to be substantially identical along with the outfall being used to represent such outfalls and appropriate justification must be provided with the application.

- 4. For existing facilities with an individual NPDES permit covering storm water associated with industrial activity, or those facilities who have previously submitted an application for an individual permit and not yet received a permit, the permittee/applicant may effect to seek coverage under this general permit in place of obtaining an individual permit. To be considered for coverage the permittee/applicant is required to submit the above information following the general permit issue date.
- 5. For new facilities, the NOI and required information shall be submitted 180 days prior to the date on which the discharge is to commence unless permission for a later date has been granted by the IEPA. Hobile facilities (such as concrete or asphalt batch plants) shall apply at least 30 days prior to discharge.
- 6. For purposes of the permit an existing facility shall be considered a facility which discharged storm water associated with industrial activity prior to the application deadline set by the U.S. EPA storm water regulations. A new facility is a facility which generates storm water after, but not before the deadline.
- 7. The required information shall be submitted to the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Permit Section
Post Office Box 19276
Springfield, Illinois 62794-9276

- 8. In any case where an NPDES Permit has been timely applied for but final administrative disposition of such application has not been made, it shall not be a violation of Section 12(F) of the Environmental Protection Act to discharge without such permit unless the complainant proves that final administrative disposition has not been made because of the failure of the applicant to furnish information reasonably required or requested in order to process the application. For purposes of this provision, participation in a group application filled with U.S. EPA shall be deemed an application filled with the Agency. This provision does not relieve the applicant from the responsibility for compliance with any other requirement of the Act or regulations promulgated under the Act.
- Facilities which discharge storm water associated with industrial activity to a municipal separate storm sewer system shall notify the municipality, and shall provide the municipality with a copy of their application if requested.

D. STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

- 1. A storm water pollution prevention plan shall be developed by the permittee for each facility covered by this permit. The plan shall identify potential sources of pollution which may be expected to affect the quality of storm water discharges associated with the industrial activity at the facility. In addition, the plan shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit.
- 2. The plan shall be completed within 180 days of notification by the Agency of coverage by this permit or in the case of new facilities, prior to submitting an NOI to be covered under this permit. Plans shall provide for compliance with the terms of the plan within 365 days of notification by the Agency of coverage by this permit, or in the case of new facilities, prior to submitting an NOI to be covered under this permit. The owner or operator of a facility with storm water discharges covered by this permit shall make a copy of the plan available to the Agency at any reasonable time upon request.

Facilities which discharge to a municipal separate storm sewer system shall also make a copy available to the operator of the municipal system at any reasonable time upon request.

- 3. The permittee may be notified by the Agency at any time that the plan does not meet the requirements of this permit. After such notification, the permittee shall make changes to the plan and shall submit a written certification that the requested changes have been made. Unless otherwise provided, the permittee shall have 30 days after such notification to make the changes.
- 4. The discharger shall amend the plan whenever there is a change in construction, operation, or maintenance which may affect the discharge of significant quantities of pollutants to the waters of the State or if a facility inspection required by paragraph 0.8. of this permit indicates that an amendment is needed. The plan should also be amended if the discharger is

in violation of any conditions of this permit, or has not achieved the general objectives of controlling pollutants in storm water discharges. Amendments to the plan shall be made within the shortest reasonable period of time, and shall be provided to the Agency for review upon request.

- 5. The plan shall provide a description of potential sources which may be expected to add significant quantities of pollutants to storm water discharges, or which may result in non-storm water discharges from the facility. The plan shall include, at a minimum, the following items:
 - a. A topographic map extending one-quarter mile beyond the property boundaries of the facility, showing: the facility, surface water bodies, wells (including injection wells), seepage pits, infiltration ponds, and the discharge points where the facility's storm water discharges to a municipal storm drain system or other water body. The requirements of this paragraph may be included on the site map if appropriate.
 - b. A site map showing:
 - The storm water conveyance and discharge structures:
 - An outline of the storm water drainage areas for each storm water discharge point:
 - iii. Paved areas and buildings;
 - Areas used for outdoor manufacturing, storage, or disposal of significant materials. including activities that generate significant quantities of dust or particulates.
 - Location of existing storm water structural control measures (dikes, coverings, detention facilities, etc.);
 - Surface water locations and/or municipal storm drain locations
 - vii. Areas of existing and potential soil erosion;
 - viii. Vehicle service areas;
 - Material loading, unloading, and access areas.
 - A narrative description of the following:
 - The nature of the industrial activities conducted at the site, including a description of significant materials that are treated, stored or disposed of in a manner to allow exposure to storm water:
 - Materials, equipment, and vehicle management practices employed to minimize contact of significant materials with storm water discharges; - all dey
 - Existing structural and non-structural control measures to reduce pollutants in storm water discharges: whome, dock partially conferming and conferming an
 - Industrial storm water discharge treatment facilities; iv.
 - Methods of onsite storage and disposal of significant materials; sported inside in a control of the time period.
 - d. A list of the types of pollutants that have a reasonable potential to be present in storm water discharges in significant quantities.
 - An estimate of the size of the facility in acres or square feet, and the percent of the facility that has impervious areas such as pavement or buildings.
 - f. A summary of existing sampling data describing pollutants in storm water discharges.
- 6. The plan shall describe the storm water management controls which will be implemented by the facility. The appropriate controls shall reflect identified existing and potential sources of pollutants at the facility. The description of the storm water management controls shall include:

Storm Water Pollution Prevention Personnel - Identification by job titles of the fill for individuals who are responsible for developing, implementing, and revising the plan.

576.1 Preventive Maintenance - Procedures for inspection and maintenance of storm water conveyance system devices such as oil/water separators, catch basins, etc., and inspection and testing of plant equipment and systems that could fail and result in discharges of

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pollutants to storm water.

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Good Housekeeping - Good housekeeping requires the maintenance of clean, orderly facility areas that discharge storm water. Material handling areas shall be inspected and cleaned

to reduce the potential for pollutants to enter the storm water conveyance system.

| May be the color cloc
| Spill Prevention and Response - Identification of areas where significant materials can spill into or otherwise enter the storm water conveyance systems and their accompanying drainage points. Specific material handling procedures, storage requirements, spill clean up equipment and procedures should be identified, as appropriate. Internal notification procedures for spills of significant materials should be established.

Storm Water Management Practices - Storm water management practices are practices other than those which control the source of pollutants. They include measures such as installing oil and grit separators, diverting storm water into retention basins, etc. Based on assessment of the potential of various sources to contribute pollutants. measures to remove pollutants from storm water discharge shall be implemented. In developing the plan, the following management practices shall be considered:

Containment - Storage within berms or other secondary containment devices to prevent leaks and spills from entering storm water runoff;

t ii. Oil & Grease Separation - Oil/water separators, booms, skimmers or other methods to minimize oil contaminated storm water discharges;

iii. Debris & Sediment Control - Screens, booms, sediment ponds or other methods to reduce debris and sediment in storm water discharges:

Waste Chemical Disposal - Waste chemicals such as antifreeze, degreasers and used oils shall be recycled or disposed of in an approved manner and in a way which prevents them from entering storm water discharges. USEC 3. 15 picked up & elisposid

v. Storm Water Diversion - Storm water diversion away from materials manufacturing. At MINUTED Storage and other areas of potential storm water contentials manufacturing. storage and other areas of potential storm water contamination;

Covered Storage or Manufacturing Areas - Covered fueling operations, materials

manufacturing and storage areas to prevent contact with storm water.

Description of the plan shall identify areas which due to topography.

Areas activities, or other factors, have a high potential for significant soil erosion and Purfinlly william describe measures to limit erosion.

Employee Training - Employee training programs shall inform personnel at all levels of responsibility of the components and goals of the storm water pollution control plan. Training should address topics such as spill response, good housekeeping and material management practices. The plan shall identify periodic dates for such training.

Inspection Procedures - Qualified plant personnel shall be identified to inspect designated equipment and plant areas. A tracking or follow-up procedure shall be used to ensure appropriate response has been taken in response to an inspection. Inspections and maintenance activities shall be documented and recorded.

7. Non-Storm water Discharges - The plan shall include a certification that the discharge has been tested or evaluated for the presence of non-storm water discharges. The certification shall include a description of any tests for the presence of non-storm water discharges, the methods used, the dates of the testing, and any onsite drainage points that were observed during the testing. Any facility that is unable to provide this certification must describe the procedure of any test conducted for the presence of non-storm water discharges, the test results, potential sources of non-storm water discharges to the storm sewer, and why adequate tests for such storm sewers were not feasible. Discharges not comprised entirely of storm water are not authorized by this permit.

The permittee shall conduct an annual facility inspection to verify that all elements of the plan, including the site map, potential pollutant sources, and structural and non-structural controls to reduce pollutants in industrial storm water discharges are accurate. Observations that require a response and the appropriate response to the observation shall be retained as part of the plan. Records documenting significant observations made during the site inspection shall be submitted to the Agency in accordance with the reporting requirements of this permit.

9. This plan should briefly describe the appropriate elements of other program requirements. including Spill Prevention Control and Countermeasures (SPCC) plans required under Section 311 of the CWA and the regulations promulgated thereunder, and Best Hanagement Programs under 40 CFR 125.100.

10. The plan is considered a report that shall be available to the public under Section 308(b) of the CWA. The permittee may claim portions of the plan as confidential business information, including any portion describing facility security measures. Brylov & nebort

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- 11. The plan shall include the signature and title of the person responsible for preparation of the plan and include the date of initial preparation and each amendment thereto.
- 12. Facilities which discharge storm water associated with industrial activity to municipal separate storm sewers may also be subject to additional requirements imposed by the operator of the municipal system.

E. CONSTRUCTION AUTHORIZATION

Authorization is hereby granted to construct treatment works and related equipment that may be required by the Storm Water Pollution Prevention Plan developed pursuant to this permit.

This Authorization is issued subject to the following condition(s).

- 1. If any statement or representation is found to be incorrect, this authorization may be revoked and the permittee thereupon waives all rights thereunder.
- 2. The issuance of this authorization (a) does not release the permittee from any liability for damage to persons or property caused by or resulting from the installation, maintenance or operation of the proposed facilities; (b) does not take into consideration the structural stability of any units or part of this project; and (c) does not release the permittee from compliance with other applicable statutes of the State of Illinois, or other applicable local law, regulations or ordinances.
- Plans and specifications of all treatment equipment being included as a part of the stormwater management practice shall be included in the SWPPP.
- Any modification of or deviation from the plans and specifications originally submitted with the initial SWPPP requires amendment of the SWPPP.
- 5. Construction activities which result from treatment equipment installation, including cleaning, grading and excavation activities which result in the disturbance of five acres or more of land area, are not covered by this authorization. The permittee shall contact the IEPA regarding required permit(s).

F. REPORTING

- 1. The facility shall submit an annual inspection report to the Illinois Environmental Protection Agency. The report shall include results of the annual facility inspection which is required by Part 8 of the Storm Water Pollution Prevention Plan of this permit. The report shall also include documentation of any event (spill, treatment unit-malfunction, etc.) which would require an inspection, results of the inspection, and any subsequent corrective maintenance activity. The report shall be completed and signed by the authorized facility employee(s) who conducted the inspection(s).
- 2. The first report shall contain information gathered during the one year time period beginning with the effective date of coverage under this permit and shall be submitted no later than 60 days after this one year period has expired. Each subsequent report shall contain the previous year's information and shall be submitted no later than one year after the previous year's report was due.
- Annual inspection reports shall be mailed to the following address:

Illinois Environmental Protection Agency Division of Water Pollution Control Compliance Assurance Section Annual Inspection Report 2200 Churchill Road P.O. Box 19276 Springfield, Illinois 62794-9276

4. If the facility performs inspections more frequently than required by this permit, the results shall be included as additional information in the annual report.

G. TERMINATION OF COVERAGE UNDER THIS PERMIT

1. Where all storm water discharges associated with industrial activity that have been authorized by this permit are eliminated, the operator of the facility may submit a termination request to the Agency at the address shown on Page 5 of this permit. The termination request shall include the name, address, telephone number, and location of the facility, and a description of actions taken to eliminate the storm water discharge or other justification for the request. Coverage under this permit is not terminated until the Agency acts on the termination request, and reports as described above are required until coverage is terminated.

- 2. The Agency may require any person authorized by this permit to apply for and obtain either an individual NPDES permit or an alternative NPDES general permit. Any interested person may petition the Agency to take action under this paragraph. The Agency may require any owner or operator authorized to discharge under this permit to apply for an individual NPDES permit only if the owner or operator has been notified in writing that a permit application is required. This notice shall include a brief statement of the reasons for this decision, an application form, a statement setting a deadline for the owner or operator to file the application, and a statement that on the effective date of the individual NPDES permit or the alternative general permit as it applies to the individual permittee, coverage under this general permit shall automatically terminate. The Agency may grant additional time to submit the application upon request of the applicant. If an owner or operator fails to submit in a timely manner an individual NPDES permit application required by the Agency under this paragraph then the applicability of this permit to the individual NPDES permitted is automatically terminated at the end of the day specified for application submittal.
- 3. Any owner or operator authorized by this permit may request to be excluded from the coverage of this permit by applying for an individual permit. The owner or operator shall submit an individual application with reasons supporting the request, in accordance with the requirements of 40 CFR 122.28, to the Agency. The request shall be granted by issuing of an individual permit or an alternative general permit if the reasons cited by the owner or operator are adequate to support the request.
- 4. When an individual NPDES permit is issued to an owner or operator otherwise subject to this permit, or the owner or operator is approved for coverage under an alternative NPDES general permit, the applicability of this permit to the individual NPDES permittee is automatically terminated on the issue date of the individual permit or the date of approval for coverage under the alternative general permit, whichever the case may be. When an individual NPDES permit is denied to an owner or operator otherwise subject to this permit, or the owner or operator is denied coverage under an alternative NPDES general permit the applicability of this permit to the individual NPDES permitted is automatically terminated on the date of such denial, unless otherwise specified by the Agency.

H. RENEWAL

- 1. Application forms for renewal procedures, including coverage under this general permit, will be available approximately one year prior to the expiration date.
- 2. Any Permittee who wishes to continue to discharge after the expiration date of this general permit shall apply for reissuance of the permit not less than 180 days prior to the expiration date of this permit.

I. DEFINITIIONS

- 1. Coal pile runoff means the rainfall runoff from or through any coal storage pile.
- Land application unit means an area where wastes are applied onto or incorporated into the soil surface (excluding manure spreading operations) for treatment or disposal.
- Landfill means an area of land or an excavation in which wastes are placed for permanent disposal, and which is not a land application unit, surface impoundment, injection well or waste pile.
- 4. Section 313 water priority chemical means a chemical or chemical categories which: 1) Are listed at 40 CFR 372.65 pursuant to Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) (also known as Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986); 2) are present at or above threshold levels at a facility subject to EPCRA Section 313 reporting requirements; and 3) that meet at least one of the following criteria: (i) Are listed in Appendix D of 40 CFR 122 on either Table II (organic priority pollutants), Table III (certain metals, cyanides, and phenols) or Table V (certain toxic pollutants and hazardous substances); (ii) are listed as a hazardous substance pursuant to section 311(b)(2)(A) of the CWA at 40 CFR 116.4; or (iii) are pollutants for which EPA has published acute or chronic water quality criteria.
- 5. <u>Significant materials</u> includes, but is not limited to: raw materials; fuels; materials such as solvents, detergents, and plastic pellets; finished materials such as metallic products; raw materials used in food processing or production; hazardous substances designated under section 101(14) of CERCLA; any chemical the facility is required to report pursuant to EPCRA Section 313; fertilizers; pesticides; and waste products such as ashes, slag and sludge that have the potential to be released with storm water discharges.
- 6. <u>Significant spills</u> includes, but is not limited to: releases of oil or hazardous substances in excess of reportable quantities under section 311 of the Clean Water Act (see 40 CFR 110.10 and CFR 117.21) or section 102 of CERCLA (see 40 CFR 302.4).

Note that additional definitions are included in the permit Standard Conditions. Attachment H.



Illinois Environmental Protection Agency

1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 Mary A. Gade, Director

217/782-0610

June 15, 1998

ROGERT HITCHCOCK
LARRY KOLLINS
NORWOOD MARKING SYSTEMS
2538 WISCONSIN AVENUE
DOWNERS GROVE, IL. 60515

Re: NORWOOD MARKING SYSTEMS - DOWNERS GROVE FACILITY

NPDES Permit No. ILR000175

Notice of Coverage under General Permit

Dear NPDES Permittee:

Enclosed is a copy of the reissued general NPDES permit for discharges of industrial storm water and the new annual report forms.

The permit as issued covers application requirements, a storm water pollution prevention plan, and reporting requirements. For dischargers not previously covered by an NPDES storm water permit, the storm water pollution prevention plan must be completed within 180 days of this notification of coverage and shall provide for compliance within 365 days of this notification of coverage.

Failure to meet any portion of the permit could result in civil and/or criminal penalties. The Agency is ready and willing to assist you in interpreting any of the conditions of the Permit as they relate specifically to your discharge.

The Permit is applied to your discharge effective on the date of this letter. You have the right to appeal the Agency's decision to cover your discharge by the General Permit to the Illinois Pollution Control Board within a 35 day period following the date of this letter.

This letter shows your facility permit number below your facility name. Please reference this number in all future correspondence. Should you have any questions concerning the Permit, please contact the Permit Section at 217/782-0610.

Very truly yours,

Thomas G. McSwiggin, P.E.

Manager, Permit Section

Division of Water Pollution Control

TGM:MED:a

Enclosure

cc: Records Unit

Region 2

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY ANNUAL FACILITY INSPECTION REPORT NPDES PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL SITE ACTIVITIES

Complete each section of this report form. Place a NA in sections that do not apply to your operation REPORT PERIOD: FROM TO OWNER/OPERATOR INFORMATION: AS IT APPEARS ON THE CURRENT PERMIT NAME TELEPHONE NO MAILING ADDRESS CITY STATE ZIP CONTACT PERSON Person responsible for Annual Report FACILITY/SITE INFORMATION: AS IT APPEARS ON THE CURRENT PERMIT **FACILITY NAME** PERMIT NO ILR **FACILITY MAILING ADDRESS** CITY STATE ZIP PRIMARY SIC CODE COUNTY **CONTACT PERSON** TELEPHONE NO. **FACILITY ADDRESS** If different from mailing address RECEIVING WATER INFORMATION STORM SEWER OWNER NAME WATERS OF THE STATE **CLOSEST RECEIVING WATERS** ADDITIONAL INFORMATION Has this facility received an NPDES Permit under a different owner/operator name in the past? If so, list last name permit was issued to: Attach information on any activity that has occurred at this facility during the report period that may have resulted in pollutants discharged to storm water runoff (e.g. Spills) Attach information on any changes to the facility or the activity occurring at the facility that resulted in significant changes to the SWPPP. DATE **SIGNATURE**

Retain pink copy, submit original & yellow copy to: ILLINOIS ENVIRONMENTAL PROTECTION ACENCY WATER POLLUTION CONTROL

COMPLIANCE ASSURANCE SECTION #19 1021 NORTH CRAND AVENUE EAST

POST OFFICE BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276

Information required by this form must be provided to comply with 415 ILCS 5/39 (1996). Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

General NPDES Permit No. ILR00

Illinois Environmental Protection Agency
Division of Water Pollution Control
1021 North Grand East
P.O. Box 19276
Springfield, Illinois 62794-9276

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

General NPDES Permit For Industrial Storm Water

Expiration Date:

May 31, 2003

Issue Date:

May 19, 1998

Effective Date:

June 1, 1998

Discharges authorized by this General Permit: In compliance with the provisions of the Illinois Environmental Protection Act, the Illinois Pollution Control Board Rules and Regulations (35 Ill. Adm. Code, Subtitle C, Chapter 1) and the Clean Water Act, the following discharges may be authorized by this permit in accordance with the conditions herein:

Discharges of storm water associated with industrial activity, as defined and limited herein. Storm water means storm water runoff, snow melt runoff, and surface runoff and drainage.

This general permit regulates only storm water discharges from a facility. Other discharges such as process wastewater or cooling water shall be regulated by other NPDES permits.

Receiving waters: Discharges may be authorized to any surface water of the State.

To receive authorization to discharge under this general permit, a facility operator must either submit an application as described in the permit conditions to the Illinois Environmental Protection Agency or have a valid Illinois General NPDES Permit for industrial storm water. Authorization, if granted, will be by letter and include a copy of this permit.

Thomas G. McSwiggin, P.E. Manager, Permit Section

Division of Water Pollution Control

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A. APPLICABILITY OF THIS GENERAL PERMIT

This permit is applicable to new and existing storm water discharges associated with industrial activity in the State of Illinois from the facilities listed below.

- 1. Discharges of storm water from facilities whose process wastewater discharges are subject to new source performance standards or toxic pollutant effluent standards under 40 CFR Subchapter N, except:
 - a. discharges subject to new source performance standards or toxic pollutant effluent standards and described in paragraph A.8. below which do not have materials or activities exposed to storm water;
 - b. discharges subject to storm water effluent limitations guidelines listed in B.1. of this permit.
- 2. Discharges from manufacturing facilities in the following categories:

SIC 24	(Lumber and wood products except furniture) except SIC 2434 (Wood kitchen cabinets)
SIC 26	(Paper and allied products) except SIC 265 (Paperboard containers and boxes from purchased paperboard) and
	SIC 267 (Converted paper and paperboard products, except containers and boxes)
SIC 28	(Chemicals and allied products) except SIC 283 (Drugs)
SIC 29	(Petroleum refining and related industries), except discharges subject to 40 CFR 419
SIC 311	(Leather tanning and finishing)
SIC 32	(Stone, clay, glass, and concrete products) except SIC 323 (Glass products made of purchased glass)
SIC 33	(Primary metal industries)
SIC 3441.	(Fabricated structural metal)
SIC 373	(Ship and boat building and repairing)

- 3. Facilities classified as SIC Codes 10-14 (Mineral Industry) including active or inactive mining operations and oil and gas exploration, production, processing, treatment operations, or transmission facilities, except discharges subject to 40 CFR 434, 436, or 440.
- 4. Landfills, land application sites (excluding land application sites which utilize agricultural land), and open dumps that receive or have received any industrial wastes (waste that is received from any of the facilities described in 40 CFR 122.26(b)(14).
- Facilities involved in the recycling of materials including metal scrapyards, battery reclaimers, salvage yards, and automobile junkyards including but not limited to SIC 5015 (Used motor vehicle parts) and SIC 5093 (Scrap and waste materials)
- 6. Transportation facilities-portions of the following facilities involved in vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling, and lubrication), equipment cleaning operations, or airport deicing operations:

SIC 40	(Railroad transportation)
SIC 41	(Local and suburban transit and inter-urban highway passenger transportation)

SIC 42	(Motor freight transportation and warehousing) except SIC 4221-4225 (Farm product warehousing and storage,
	refrigerated warehousing and storage, general warehousing and storage)
SIC 43	(United States Postal Service)
SIC 44	(Water transportation)
SIC 45	(Transportation by air)
SIC 5171	(Petroleum bulk stations and terminals-wholesale)

- 7. Treatment Works treating domestic sewage that are owned or operated by municipalities with a population of 100,000 people or more or that are privately-owned with a design flow of 1.0 mgd or more; includes sludge or wastewater treatment devices or systems used in the storage, treatment, recycling, and reclamation of municipal or domestic sewage, and land dedicated to sludge disposal located within the confines of the facility; excludes off-site sludge management lands, farm lands, and gardens.
- 8. Facilities in the following SIC Codes with storm water discharges from areas (except access roads and rail lines) where material handling equipment or activities, raw materials, intermediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water.

SIC 20 SIC 21	(Food and kindred products manufacturing or processing) (Tobacco products)
SIC 22 SIC 23	(Textile mill products) (Apparel and other finished products made from fabrics and similar materials)
SIC 2434	(Wood kitchen cabinets)
SIC 25	(Furniture and fixtures)
SIC 265	(Paperboard containers and boxes)
SIC 267	(Converted paper and paperboard products, except containers and boxes)
SIC 27	(Printing, publishing, and allied industries)
SIC 283	(Drugs)
SIC 285	(Paints, varnishes, lacquers, enamels, and allied products)
SIC 30	(Rubber and miscellaneous plastics products)
SIC 31	(Leather and leather products) except SIC 311 (Leather tanning and finishing)
SIC 323	(Glass products, made of purchased glass)
SIC 34	(Fabricated metal products, except machinery and transportation equipment) except SIC 3441 (Fabricated structural metal)
SIC 35	(Industrial and commercial machinery and computer equipment)
SIC 36	(Electronic and other electrical equipment and components, except computer equipment)
SIC 37	(Transportation equipment) except SIC 373 (Ship and boat building and repairing)
SIC 38	(Measuring, analyzing, and controlling instruments; photographic, medical, and optical goods; watches and clocks)
SIC 39	(Miscellaneous manufacturing industries)
SIC 4221-25	(Farm products warehousing and storage, refrigerated warehousing and storage, general warehousing and storage)

B. TYPES OF DISCHARGES NOT COVERED BY THIS PERMIT

This permit is not applicable to storm water discharges from the following facilities:

1. Discharges subject to storm water effluent limitations guidelines in the following categories;

Cement Manufacturing (40 CFR 411)
Feedlots (40 CFR 412)
Fertilizer Manufacturing (40 CFR 418)
Petroleum Refining (40 CFR 419)
Phosphate Manufacturing (40 CFR 422)
Steam Electric (40 CFR 423)
Coal Mining (40 CFR 434)
Mineral Mining and Processing (40 CFR 436)
Ore Mining and Dressing (40 CFR 440)
Asphalt Emulsion (40 CFR 443)

- Hazardous waste treatment, storage or disposal facilities.
- 3. Steam electric power generating facilities, including coal handling sites.

- 4. Construction activity including clearing, grading and excavation activities.
- Storm water discharges associated with industrial activity from facilities with an existing NPDES individual or general permit for the storm water discharges.
- 5. Storm water discharges associated with industrial activity which are identified by the Agency as possibly causing or contributing to a violation of water quality standards.
- Storm water discharges associated with inactive mining or inactive oil and gas operations occurring on Federal lands where an operator cannot be identified.
- 3. Storm water discharges that the Agency determines are not appropriately covered by this general permit.

This permit does not authorize the discharge of hazardous substances or oil resulting from an on-site spill, and does not supercede any reporting requirements for spills or releases of hazardous substances or oil.

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C. SPECIAL CONDITIONS

- 1. Prohibition on non-storm water discharges
 - a. Except as provided in C. 1. b. below, all discharges covered by this permit shall be composed entirely of storm water.
 - b. i. Except as provided in C. 1 .b. ii. below, discharges of material other than storm water must be in compliance with an NPDES permit (other than this permit) issued for the discharge .
 - ii. The following non-storm water discharges may be authorized by this permit provided the non-storm water component of the discharges is in compliance with paragraph E.7. of this permit: discharges from fire fighting activities; fire hydrant flushings; waters used to wash vehicles without the use of detergents or control dust; potable water sources including waterline flushings; irrigation drainages; lawn watering; routine external building washdown which does not use detergents; pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used; air conditioning condensate; springs; uncontaminated ground water; and foundation or footing drains where flows are not contaminated with process materials such as solvents.

D. APPLICATION REQUIREMENTS

- Dischargers that are covered by a valid Illinois General NPDES Permit for industrial storm water as of September 30, 1997 are automatically covered by this permit unless they request otherwise prior to the effective date of this permit. Other dischargers seeking coverage under this general permit shall provide the Illinois Environmental Protection Agency (IEPA) with the following information:
 - a. A completed IEPA Notice of Intent form, accompanied by quantitative sampling data for the storm water discharge(s) if available;
 - b. A completed U.S. EPA Form 1, including Form 2F and quantitative sampling data if available; or
 - c. A completed U.S. EPA Notice of Intent form, accompanied by quantitative sampling data for the storm water discharge(s) if available.
- 2. Quantitative sampling data as required by U.S. EPA Form 2F for storm water discharges from the following facilities is required to be submitted, unless the facility is a participant in a group application accepted by U.S. EPA.
 - a. Facilities subject to reporting requirements under Section 313 of EPCRA for chemicals classified as "Section 313 water priority chemicals": Storm water discharges that come into contact with any equipment, tank, container, or other vessel or area used for storage of a Section 313 water priority chemical, or located at a truck or rail car unloading area where a Section 313 water priority chemical is handled.
 - b. Facilities classified as SIC 33 (Primary Metal Industries).
 - Active or inactive landfills, land application sites, or open dumps without a stabilized final cover which have received any industrial wastes.

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- d. Wood treatment facilities: Storm water discharges from areas that are used for wood treatment, wood surface application, or storage of treated or surface protected wood.
- e. Coal pile runoff at industrial facilities other than coal mines.
- f. Battery reclaiming facilities: Storm water discharges from areas used for storage of lead acid batteries, reclamation products, or waste products, and areas used for lead acid battery reclamation.
- g Airports with over 50,000 flight operations per year: storm water discharges from aircraft or airport deicing areas.
- h. Meat packing plants, poultry packing plants, and facilities that manufacture animal and marine fats and oils.
- Facilities classified as SIC 28 (Chemicals and Allied Products) and SIC 30 (Rubber and Miscellaneous Plastics Products): Storm water discharges that come into contact with solid chemical storage piles.
- j. Automobile junkyards: Storm water discharges exposed to over 250 auto/truck bodies with drivelines, over 250 drivelines, or any combination thereof (in whole or in parts); over 500 auto/truck units (bodies with or without drivelines in whole or in parts); or over 100 units per year are dismantled and drainage or storage of automotive fluids occurs in areas exposed to storm water.
- k. Lime manufacturing facilities: Storm water discharges that have come into contact with lime storage piles.
- 1. Cement manufacturing facilities and cement kilns: Storm water discharges other than those subject to 40 CFR 411.
- m. Ready-mixed concrete facilities. Sampling data is not required for new ready-mixed concrete facilities or for relocated ready-mixed concrete facilities.
- n. Ship building and repairing facilities.
- 3. When a facility has two or more outfalls that, based on consideration of features and activities within the area drained by the outfall, the permittee reasonably believes discharge substantially identical effluents, the permittee may sample the effluent of one such outfall and report that quantitative data also applied to the substantially identical outfalls. If the applicant is requesting approval to sample a representative outfall, identification of all storm water outfalls considered to be substantially identical along with the outfall being used to represent such outfalls and appropriate-justification must be provided with the application.
- 4. For existing facilities with an individual NPDES permit covering storm water associated with industrial activity, or those facilities who have previously submitted an application for an individual permit and not yet received a permit, the permittee/applicant may elect to seek coverage under this general permit in place of obtaining an individual permit. To be considered for coverage the permittee/applicant is required to submit the above information following the general permit issue date.
- 5. For new facilities, the NOI and required information shall be submitted 180 days prior to the date on which the discharge is to commence unless permission for a later date has been granted by the IEPA. Mobile facilities (such as concrete or asphalt batch plants) shall apply at least 30 days prior to discharge.
- 6. For purposes of the permit an existing facility shall be considered a facility which discharged storm water associated with industrial activity prior to the application deadline set by the U.S. EPA storm water regulations. A new facility is a facility which generates storm water after, but not before the deadline.
- 7. The required information shall be submitted to the following address:

Illinois Environmental Protection Agency Division of Water Pollution Control Permit Section Post Office Box 19276 Springfield, Illinois 62794-9276

8. In any case where an NPDES Permit has been timely applied for but final administrative disposition of such application has not been made, it shall not be a violation of Section 12-F of the Environmental Protection Act to discharge without such permit unless the complainant proves that final administrative disposition has not been made because of the failure of the applicant to furnish information reasonably required or requested in order to process the application. For purposes of this provision, participation in a group application filed with U.S. EPA shall be deemed an application filed with the Agency. This provision does not relieve the applicant from the responsibility for compliance with any other requirement of the Act or regulations promulgated under the Act.

Facilities which discharge storm water associated with industrial activity to a municipal separate storm sewer system shall notify the municipality, and shall provide the municipality with a copy of their application if requested.

E. STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

- A storm water pollution prevention plan shall be developed by the permittee for each facility covered by this permit. The plan shall identify potential sources of pollution which may be expected to affect the quality of storm water discharges associated with the industrial activity at the facility. In addition, the plan shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit. - Community (Annual Community Office of Community self-religion)
- The plan shall be completed within 180 days of notification by the Agency of coverage by this permit or in the case of new facilities, prior to submitting an NOI to be covered under this permit. Plans shall provide for compliance with the terms of the plan within 365 days of notification by the Agency of coverage by this permit, or in the case of new facilities, prior to submitting an NOI to be covered under this permit. [Note: If the plan has already been required to be developed under a previous permit it shall be maintained in accordance with all requirements of this special condition.]. The owner or operator of a facility with storm water discharges covered by this permit shall make a copy of the plan available to the Agency at any reasonable time upon request.

Facilities which discharge to a municipal separate storm sewer system shall also make a copy available to the operator of the municipal system at any reasonable time upon request.

- The permittee may be notified by the Agency at any time that the plan does not meet the requirements of this permit. After such notification, the permittee shall make changes to the plan and shall submit a written certification that the requested changes have been made. Unless otherwise provided, the permittee shall have 30 days after such notification to make the changes.
- The discharger shall amend the plan whenever there is a change in construction, operation, or maintenance which may affect the discharge of significant quantities of pollutants to the waters of the State or if a facility inspection required by paragraph E.8. of this permit indicates that an amendment is needed. The plan should also be amended if the discharger is in violation of any conditions of this permit, or has not achieved the general objectives of controlling pollutants in storm water discharges. Amendments to the plan shall be made within the shortest reasonable period of time, and shall be provided to the Agency for review upon request.
- The plan shall provide a description of potential sources which may be expected to add significant quantities of pollutants to storm water discharges, or which may result in non-storm water discharges from the facility. The plan shall include, at a minimum, the following items:
 - A topographic map extending one-quarter mile beyond the property boundaries of the facility, showing: the facility, surface water bodies, wells (including injection wells), seepage pits, infiltration ponds, and the discharge points where the facility's storm water discharges to a municipal storm drain system or other water body. The requirements of this paragraph may be included on the ිදු දැනට පත් දුන් ගැන සංවිත වෙනා විවේක වීම වෙන කත්වෙනින් දෙන්නු සුමුණ්ඩු දැනට පත දෙන්නුවන් පත්තර දැන්නෙන් මට කරනුම් විසු පාසුසුම් වියේක් දිනු මුණුණුම් site map if appropriate.
 - A site map showing:
 - and the state of t The storm water conveyance and discharge structures; i.
 - ii. An outline of the storm water drainage areas for each storm water discharge point;
 - iii. Paved areas and buildings;
 - Areas used for outdoor manufacturing, storage, or disposal of significant materials, including activities that generate iv. significant quantities of dust or particulates.
 - Location of existing storm water structural control measures (dikes, coverings, detention facilities, etc.); ٧.
 - Surface water locations and/or municipal storm drain locations vi.
 - vii. Areas of existing and potential soil erosion;
 - viii. Vehicle service areas;

- Material loading, unloading, and access areas. ix.
- A narrative description of the following:
 - The nature of the industrial activities conducted at the site, including a description of significant materials that are Ĭ. treated, stored or disposed of in a manner to allow exposure to storm water;
 - ii. Materials, equipment, and vehicle management practices employed to minimize contact of significant materials with 1,1 THE RESERVE THE PROPERTY OF TH storm water discharges;

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a de la la casa de la compansa de l Existing structural and non-structural control measures to reduce pollutants in storm water discharges; iii.

may respect to the contract of

- Industrial storm water discharge treatment facilities; iv.
- -13 * There is a substitution of Methods of onsite storage and disposal of significant materials; স্বৰ্ভন প্ৰায়ন্ত্ৰ প্ৰতিশ্ৰমন্ত্ৰী ٧. The state of the second second second second second second second second second second second second second se
- A list of the types of pollutants that have a reasonable potential to be present in storm water discharges in significant quantities.
- An estimate of the size of the facility in acres or square feet, and the percent of the facility that has impervious areas such as pavement or buildings.
- A summary of existing sampling data describing pollutants in storm water discharges. f.
- The plan shall describe the storm water management controls which will be implemented by the facility. The appropriate controls shall reflect identified existing and potential sources of pollutants at the facility. The description of the storm water management controls shall include:
 - Storm Water Pollution Prevention Personnel Identification by job titles of the individuals who are responsible for developing. implementing, and revising the plan.
 - Preventive Maintenance Procedures for inspection and maintenance of storm water conveyance system devices such as oil/water separators, catch basins, etc., and inspection and testing of plant equipment and systems that could fail and result in discharges of pollutants to storm water.
 - Good Housekeeping Good housekeeping requires the maintenance of clean, orderly facility areas that discharge storm water. Material handling areas shall be inspected and cleaned to reduce the potential for pollutants to enter the storm water conveyance system.
 - Spill Prevention and Response Identification of areas where significant materials can spill into or otherwise enter the storm water` conveyance systems and their accompanying drainage points. Specific material handling procedures, storage requirements, spill clean up equipment and procedures should be identified, as appropriate. Internal notification procedures for spills of significant Fe adaptate requirements bronsed by the recenter of the crucker of opening materials should be established.
 - Storm Water Management Practices Storm water management practices are practices other than those which control the source of pollutants. They include measures such as installing oil and grit separators, diverting storm water into retention basins, etc. Based on assessment of the potential of various sources to contribute pollutants, measures to remove pollutants from storm water discharge shall be implemented. In developing the plan, the following management practices shall be considered:
 - Containment Storage within berms or other secondary containment devices to prevent leaks and spills from entering storm water runoff;
 - Oil & Grease Separation Oil/water separators, booms, skimmers or other methods to minimize oil contaminated storm water discharges;
 - Debris & Sediment Control Screens, booms, sediment ponds or other methods to reduce debris and sediment in storm water discharges;
 - iv. Waste Chemical Disposal Waste chemicals such as antifreeze, degreasers and used oils shall be recycled or disposed of in an approved manner and in a way which prevents them from entering storm water discharges.

- v. Storm Water Diversion Storm water diversion away from materials manufacturing, storage and other areas of potential storm water contamination;
- vi. Covered Storage or Manufacturing Areas Covered fueling operations, materials manufacturing and storage areas to prevent contact with storm water.
- f. Sediment and Erosion Prevention The plan shall identify areas which due to topography, activities, or other factors, have a high potential for significant soil erosion and describe measures to limit erosion.
- g. Employee Training Employee training programs shall inform personnel at all levels of responsibility of the components and goals of the storm water pollution control plan. Training should address topics such as spill response, good housekeeping and material management practices. The plan shall identify periodic dates for such training.
- h. Inspection Procedures Qualified plant personnel shall be identified to inspect designated equipment and plant areas. A tracking or follow-up procedure shall be used to ensure appropriate response has been taken in response to an inspection. Inspections and maintenance activities shall be documented and recorded.
- 7. Non-Storm water Discharges The plan shall include a certification that the discharge has been tested or evaluated for the presence of non-storm water discharges. The certification shall include a description of any tests for the presence of non-storm water discharges, the methods used, the dates of the testing, and any onsite drainage points that were observed during the testing. Any facility that is unable to provide this certification must describe the procedure of any test conducted for the presence of non-storm water discharges, the test results, potential sources of non-storm water discharges to the storm sewer, and why adequate tests for such storm sewers were not feasible. Except as provided in C.1. b., discharges not comprised entirely of storm water are not authorized by this permit.
- 3. The permittee shall conduct an annual facility inspection to verify that all elements of the plan, including the site map, potential pollutant sources, and structural and non-structural controls to reduce pollutants in industrial storm water discharges are accurate. Observations that require a response and the appropriate response to the observation shall be retained as part of the plan. Records documenting significant observations made during the site inspection shall be submitted to the Agency in accordance with the reporting requirements of this permit.
- This plan should briefly describe the appropriate elements of other program requirements, including Spill Prevention Control and Countermeasures (SPCC) plans required under Section 311 of the CWA and the regulations promulgated thereunder, and Best Management Programs under 40 CFR 125.100.
- 10. The plan is considered a report that shall be available to the public under Section 308(b) of the CWA. The permittee may claim portions of the plan as confidential business information, including any portion describing facility security measures.
- 11. The plan shall include the signature and title of the person responsible for preparation of the plan and include the date of initial preparation and each amendment thereto.
- 12. Facilities which discharge storm water associated with industrial activity to municipal separate storm sewers may also be subject to additional requirements imposed by the operator of the municipal system.

F. CONSTRUCTION AUTHORIZATION

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Authorization is hereby granted to construct treatment works and related equipment that may be required by the Storm Water Pollution Prevention Plan developed pursuant to this permit.

This Authorization is issued subject to the following condition(s).

- 1. If any statement or representation is found to be incorrect, this authorization may be revoked and the permittee thereupon waives all rights thereunder.
- 2. The issuance of this authorization (a) does not release the permittee from any liability for damage to persons or property caused by or resulting from the installation, maintenance or operation of the proposed facilities; (b) does not take into consideration the structural stability of any units or part of this project; and (c) does not release the permittee from compliance with other applicable statutes of the State of Illinois, or other applicable local law, regulations or ordinances.

- Plans and specifications of all treatment equipment being included as a part of the stormwater management practice shall be included in the SWPPP.
- Any modification of or deviation from the plans and specifications originally submitted with the initial SWPPP requires amendment of the SWPPP.
- Construction activities which result from treatment equipment installation, including cleaning, grading and excavation activities which
 result in the disturbance of five acres or more of land area, are not covered by this authorization. The permittee shall contact the IEPA
 regarding required permit(s).

G. REPORTING

- 1. The facility shall submit an annual inspection report to the Illinois Environmental Protection Agency. The report shall include results of the annual facility inspection which is required by Part 8 of the Storm Water Pollution Prevention Plan of this permit. The report shall also include documentation of any event (spill, treatment unit malfunction, etc.) which would require an inspection, results of the inspection, and any subsequent corrective maintenance activity. The report shall be completed and signed by the authorized facility employee(s) who conducted the inspection(s).
- 2. The first report shall contain information gathered during the one year time period beginning with the effective date of coverage under this permit and shall be submitted no later than 60 days after this one year period has expired. Each subsequent report shall contain the previous year's information and shall be submitted no later than one year after the previous year's report was due.

Annual inspection reports shall be mailed to the following address:

Illinois Environmental Protection Agency Division of Water Pollution Control Compliance Assurance Section Annual Inspection Report 1021 North Grand East P.O. Box 19276 Springfield, Illinois 62794-9276

3. If the facility performs inspections more frequently than required by this permit, the results shall be included as additional information in the annual report.

H. TERMINATION OF COVERAGE UNDER THIS PERMIT

Where all storm water discharges associated with industrial activity that have been authorized by this permit are eliminated, the operator of the facility may submit a termination request to the Agency at the address shown on Page 5 of this permit. The termination request shall include the name, address, telephone number, and location of the facility, and a description of actions taken to eliminate the storm water discharge or other justification for the request. Coverage under this permit is not terminated until the Agency acts on the termination request, and reports as described above are required until coverage is terminated.

- 1. The Agency may require any person authorized by this permit to apply for and obtain either an individual NPDES permit or an alternative NPDES general permit. Any interested person may petition the Agency to take action under this paragraph. The Agency may require any owner or operator authorized to discharge under this permit to apply for an individual NPDES permit only if the owner or operator has been notified in writing that a permit application is required. This notice shall include a brief statement of the reasons for this decision, an application form, a statement setting a deadline for the owner or operator to file the application, and a statement that on the effective date of the individual NPDES permit or the alternative general permit as it applies to the individual permittee, coverage under this general permit shall automatically terminate. The Agency may grant additional time to submit the application upon request of the applicant. If an owner or operator fails to submit in a timely manner an individual NPDES permit application required by the Agency under this paragraph then the applicability of this permit to the individual NPDES permitted is automatically terminated at the end of the day specified for application submittal.
- 2. Any owner or operator authorized by this permit may request to be excluded from the coverage of this permit by applying for an individual permit. The owner or operator shall submit an individual application with reasons supporting the request, in accordance with the requirements of 40 CFR 122.28, to the Agency. The request shall be granted by issuing of an individual permit or an alternative general permit if the reasons cited by the owner or operator are adequate to support the request.

3. When an individual NPDES permit is issued to an owner or operator otherwise subject to this permit, or the owner or operator is approved for coverage under an alternative NPDES general permit, the applicability of this permit to the individual NPDES permittee is automatically terminated on the issue date of the individual permit or the date of approval for coverage under the alternative general permit, whichever the case may be. When an individual NPDES permit is denied to an owner or operator otherwise subject to this permit, or the owner or operator is denied coverage under an alternative NPDES general permit the applicability of this permit to the individual NPDES permitted is automatically terminated on the date of such denial, unless otherwise specified by the Agency.

I. DEFINITIONS

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- 1. Coal pile runoff means the rainfall runoff from or through any coal storage pile.
- 2. <u>Land application site</u> means an area where wastes are applied onto or incorporated into the soil surface for treatment or disposal.
- 3. <u>Landfill</u> means an area of land or an excavation in which wastes are placed for permanent disposal, and which is not a land application site, surface impoundment, injection well or waste pile.
- 4. <u>Section 313 water priority chemical</u> means a chemical or chemical categories which: 1) Are listed at 40 CFR 372.65 pursuant to Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) (also known as Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986); 2) are present at or above threshold levels at a facility subject to EPCRA Section 313 reporting requirements; and 3) that meet at least one of the following criteria: (i) Are listed in Appendix D of 40 CFR 122 on either Table II (organic priority pollutants), Table III (certain metals, cyanides, and phenols) or Table V (certain toxic pollutants and hazardous substances); (ii) are listed as a hazardous substance pursuant to section 311(b)(2)(A) of the CWA at 40 CFR 116.4; or (iii) are pollutants for which EPA has published acute or chronic water quality criteria.
- 5. Significant materials includes, but is not limited to: raw materials; fuels; materials such as solvents, detergents, and plastic pellets; finished materials such as metallic products; raw materials used in food processing or production; hazardous substances designated under section 101(14) of CERCLA; any chemical the facility is required to report pursuant to EPCRA Section 313; fertilizers; pesticides; and waste products such as ashes, slag and sludge that have the potential to be released with storm water discharges.
- 6. <u>Significant spills</u> includes, but is not limited to: releases of oil or hazardous substances in excess of reportable quantities under section 311 of the Clean Water Act (see 40 CFR 110.10 and CFR 117.21) or section 102 of CERCLA (see 40 CFR 302.4).

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Note that additional definitions are included in the permit Standard Conditions, Attachment H.

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ATTACHMENT H

Standard Conditions

Definitions

Act means the Illinois Environmental Protection Act. Ch. 111.1.2 III. Rev. Stat., Sec. 1001-1052 as Amended

Agency means the Minois Environmental Protection Agency.

Board means the Minois Pollution Control Board

Clean Water Act (formerly referred to as the Federal Water Pollution Control Act) means Pub. L. 92-500, as amended, 33 U.S.C. 1251 et seq.

NPDES (National Pollutant Discharge Elimination System) means the national program for issuing, modifying, revoking and ressuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 402, 318 and 405 of the Clean Water Act.

USEPA meens the United States Environmental Protection Agency.

Delty Discharge means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurements, the "daily discharge" is calculated as the average measurement of the pollutant over the day.

Maximum Deity Discharge Limitation (daily maximum) means the highest allowable deity discharge.

Average Monthly Discharge Limitation (30 day average) means the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

Average Weekly Discharge Limitation (7 day average) means the highest allowable average of dely discharges over a calendar week, calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that usuals.

Best Management Practices (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the State. BMPs also include treatment requirements, operating procedures, and practices to control plant site nunoff, spillage or leaks, sludge or waste disposal, or drainings from raw material storage.

Allquot means a sample of specified volume used to make up a total composite sample.

Grab Sample means an individual sample of at least 100 milliters collected at a randomlyselected time over a period not exceeding 15 minutes.

24 Hour Composits Sample means a combination of at least 8 sample sliquots of at least 100 millifiers, collected at periodic intervals during the operating hours of a facility over a 24-hour period.

8 Hour Composite Sample meens a combination of at least 3 sample aliquots of at least 100 milliliters, collected at periodic intervels during the operating hours of a facility over an 8-hour period.

Flow Proportional Composite Sample means a combination of sample aliquots of at least 100 milliture collected at periodic intervals such that either the time interval between each aliquot or the volume of each aliquot is proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot.

- (1) Duty to comply. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action, permit termination, revocation and reissuence, modification, or for deniel of a permit renewal application. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.
- (2) Duty to reapply. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. If the permittee submits a proper application as required by the Agency no later than 180 days prior to the expiration date, this permit shall continue in full force and effect until the final Agency decision on the application has been made.
- (3) Need to helt or reduce activity not a defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to mention compliance with the conditions of this permit.
- (4) Duty to mittigets. The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adventely affecting human health or the environment.
- (5) Proper operation and meintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control fand related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up, or auxiliary facilities, or similar systems only when necessary to achieve compliance with the conditions of the permit.

- (6) Permit actions. This permit may be modified, revoked and reissued, or terminated for cause by the Agency pursuent to 40 CFR 122.62. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- (7) Property rights. This permit does not convey any property rights of any sort, or any exclusive privilege.
- (8) Duty to provide information. The permittee shall furnish to the Agency within a reasonable time, any information which the Agency may request to determine whether cause exists for modifying, revoking and resisting, or terminating this permit, or to determine compliance with the permit. The permittee shall also furnish to the Agency, upon request, copies of records required to be kept by this permit.
- (9) Inspection and entry. The permittee shall allow an authorized representative of the Agency, upon the presentation of credentiels and other documents as may be required by law, to:
 - Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
 - b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - fcl inspect at reasonable times any facilities, equipment fincluding monitoring and control equipment, practices, or operations regulated or required under this permit; and
 - (d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance, or as otherwise authorized by the Act, any substances or parameters at any location.
- (10) Monitoring and records.
 - Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity
 - B) The permittee shall retain records of all monitoring information, including all calibration and meintenance records, and all onginal step chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of this permit, measurement, report or application. This period may be extended by request of the Agency at any time.
 - Records of monitoring information shall include:
 - (1) The date, exact place, and time of sampling or measurements,
 - (2) The individual(s) who performed the sampling or measurements
 - (3) The date(s) analyses were performed;
 - (4) The individual(s) who performed the analyses;
 - (5) The analytical techniques or methods used; and
 - (6) The results of such analyses.
 - (d) Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit. Where no test procedure under 40 CFR Part 136 has been approved, the permittee must submit to the Agency a test method for approved. The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals to ensure accuracy of measurements.
- (11) Signatory requirement. All applications, reports or information submitted to the Agency shall be signed and certified.
 - (a) Application. All permit applications shall be signed as follows:
 - (1) For a corporation: by a principal executive officer of at least the level of vice president or a person or position having overall responsibility for environmental matters for the corporation.
 - (2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively, or
 - (3) For a municipality, State, Federal, or other public agency by either a principal executive officer or ranking elected official.
 - (b) Reports. All reports required by permits, or other information requested by the Agency shall be signed by a person described in persgraph fall or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - The authorization is made in writing by a person described in peragraph (a); and
 - (2) The authorization specifies either an individual or a position responsible for the overall operation of the facility, from which the discharge originates, such as a plent manager, superintendent or person of equivalent responsibility; and
 - (3) The written authorization is submitted to the Agency.

c) Changes of Authorization. If an authorization under 6bl is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of 6bl must be submitted to the Agency prior to or together with any reports, information, or applications to be signed by an authorized representative.

(12) Reporting requirements.

- Planned changes. The permittee shall give notice to the Agency as soon as possible of any planned physical atterations or additions to the permitted facility.
- b) Anticipated noncompliance. The permittee shall give advance notice to the Agency of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (c) Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no leter than 14 days following each schedule date.
- Monitoring reports. Monitoring results shall be reported at the intervals specified elsewhere in this permit.
 - Monitoring results must be reported on a Discharge Monitoring Report (DMR).
 - (2) If the permittee monitors any pollutant more frequently than required by the permit, using test procedures approved under 40 CFR 136 or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
 - (3) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Agency in the permit.
- fel. Twenty-four hour reperting. The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orely within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times; and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. The following shall be included as information which must be reported within 24 hours.
 - (1) Any unanticipated bypass which exceeds any effluent limitation in ... the permit:
 - (2) Violation of a maximum daily discharge limitation for any of the pollutarts listed by the Agency in the permit to be reported within 24 hours.

The Agency may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

- (f) Other noncompliance. The permittee shall report all instances of noncompliance not reported under paragraphs (121c), (d), or (e), at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph (121d).
- (g) Other Information. Where the permittee becomes ewere that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application, or in any report to the Agency, it shall promptly submit such facts or information.
- (13) Transfer of permits. A permit may be automatically transferred to a new permittee d:
 - The current permittee notifies the Agency at least 30 days in advance of the proposed transfer date;
 - b) The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittees; and
 - (c) The Agency does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and ressue the permit. If thes notice is not received, the transfer is effective on the date specified in the agreement.
- (14) All manufacturing, commercial, mining, and silvicultural dischargers must notify the Agency as soon as they know or have reason to believe:
 - (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant identified under Section 307 of the Clean Water Act which is not limited in the permit, if that discharge will exceed the highest of the following notification levels:
 - (1) One hundred micrograms per liter (100 ug/0,

- (2) Two hundred micrograms per liter (200 ug/8 for acrolein and acrylonoritie; five hundred micrograms per liter (500 ug/8 for 2,4dinstrophenol and for 2-methyl-4.6-dinstrophenol; and one milligram per liter (1 mg/8 for antonom;
- (3) Five (5) times the maximum concentration value reported for that pollutant in the NPDES permit application; or
- 4) The level established by the Agency in this permit.
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the NPDES permit application.
- (15) All Publicly Owned Treatment Works (POTWs) must provide adequate notice to the Agency of the following:
 - (a) Any new introduction of pollutants into that POTW from an indirect discharger which would be subject to Sections 301 or 306 of the Clean Water Act if it were directly discharging those pollutarits; and
 - Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuence of the permit.
 - (c) For purposes of this persgraph, adequate notice shall include information on III the quality and quantity of effluent introduced into the POTW, and III any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.
- (16) If the permit is issued to a publicly owned or publicly regulated treatment works, the permittee shall require any industrial user of such treatment works to comply with federal requirements concerning:
 - User charges pursuant to Section 204(b) of the Clean Water Act, and applicable regulations appearing in 40 CFR 35.
 - Toxic pollutant effluent standards and pretreatment standards pursuent to Section 307 of the Clean Water Act, and
 - (3) Inspection, monitoring and entry pursuant to Section 308 of the Clean Water Act
- (17) If an applicable standard or limitation is promulgated under Section 301(b)(2)(C) and (D), 304(b)(2), or 307(a)(2) and that effluent standard or limitation is more stringard than any effluent limitation in the permit, or controls a pollutant not limited in the permit, the permit shall be promptly modified or revoked, and reissued to conform to that effluent standard or limitation.
- (18) Any authorization to construct issued to the permittee pursuant to 35 ft. Adm. Code 309.154 is hereby incorporated by reference as a condition of this permit.
- (19) The permittee shall not make any false statement, representation or certification in any application, record, report, plan or other document submitted to the Agency or the USEPA, or required to be maintened under this permit.
- (20) The Clean Water Act provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act is subject to a civil penalty not to axceed \$10,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing Sections 301, 302, 306, 307, or 308 of the Clean Water Act is subject to a fine of not less then \$2,500, nor more than \$25,000 per day of violation, or by impresonment for not more than \$2,500.
- (21) The Clean Water Act provides that any person who felsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be mentained under permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.
- (22) The Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit shall, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.
- (23) Collected screening, sluries, sludges, and other solids shall be disposed of in such a manner as to prevent entry of those weaters for runoff from the westes) into waters of the State. The proper authorization for such disposal shall be obtained from the Agency and is incorporated as part hereof by reference.
- [24] In case of conflict between these standard conditions and any other condition(s) included in this permit, the other condition(s) shall govern.
- (25) The permittee shall compty with, in addition to the requirements of the permit, all applicable provisions of 35 III. Adm. Code. Subtitle C, Subtitle D, Subtitle E, and all applicable orders of the Board.
- (26) The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit is held invalid, the remaining provisions of this permit shell continue in full force and effect.

Mary A. Gade, Director 217/782-0610

2200 Churchill Road, Springfield, IL 62794-9276

May 5, 1993

LARRY KOLLINS NORWOOD MARKING SYSTEMS 2538 WISCONSIN AVENUE DOWNERS GROVE, IL. 60515

Re: NORWOOD MARKING SYSTEMS - DOWNERS GROVE

NPDES Permit No. ILR000175

Notice of Coverage under General Permit

Dear NPDES Permittee:

We have reviewed your application and determined that storm water discharges associated with industrial activity (excluding construction sites) are appropriately covered by the attached General NPDES Permit issued by the Agency.

The permit as issued covers application requirements, a storm water pollution prevention plan, and reporting requirements. The storm water pollution prevention plan must be completed within 180 days of this notification of coverage and shall provide for compliance within 365 days of this notification of coverage.

Failure to meet any portion of the permit could result in civil and/or criminal penalties. The Agency is ready and willing to assist you in intrepreting any of the conditions of the Permit as they relate specifically to your discharge.

The Permit is applied to your discharge effective on the date of this letter. You have the right to appeal the Agency's decision to cover your discharge by the General Permit to the Illinois Pollution Control Board within a 30 day period following the date of this letter.

This letter shows your facility permit number below your facility name. Please reference this number in all future correspondence. Should you have any questions concerning the Permit, please contact the Permit Section at 217/782-0610.

Very truly yours,

Thomas G. McSwiggin, P.E. Manager, Permit Section

Division of Water Pollution Control

TGM: ANT: a

Enclosure

cc: Records Unit Region 2

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Illinois Environmental Protection Agency Division of Hater Pollution Control 2200 Churchill Road P.O. Box 19276 Springfield, Illinois 62794-9276 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM NPDES Permit

Expiration Date: October 1, 1997 Issue Date: October 16, 1992

Discharges authorized by this General Permit: In compliance with the provisions of the Illinois Environmental Protection Act, the Illinois Pollution Control Board Rules and Regulations (35 Ill. Adm. Code, Subtitle C, Chapter 1) and the Clean Water Act, the following discharges may be authorized by this permit in accordance with the conditions herein:

Discharges of storm water associated with industrial activity, as defined and limited herein. Storm water means storm water runoff, snow melt runoff, and surface runoff and drainage.

This general permit regulates only storm water discharges from a facility. Other discharges such as process wastewater or cooling water shall be regulated by other NPDES permits.

Receiving waters: Discharges may be authorized to any surface water of the State.

To receive authorization to discharge under this general permit, a facility operator must submit an application as described in the permit conditions to the Illinois Environmental Protection Agency. Authorization, if granted, will be by letter and include a copy of this permit.

Thomas G. McSwiggin, P.I Manager, Permit Section

Division of Water Pollution Control

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A. APPLICABILITY OF THIS GENERAL PERMIT

This permit is applicable to new and existing storm water discharges associated with industrial activity in the State of Illinois from the facilities listed below.

- Discharges of storm water from facilities whose process wastewater discharges are subject to new source performance standards or toxic pollutant effluent standards under 40 CFR Subchapter N, except:
 - a. discharges subject to new source performance standards or toxic pollutant effluent standards and described in paragraph A.8. below which do not have materials or activities exposed to storm water;
 - b. discharges subject to storm water effluent limitations guidelines listed in B.1. of this permit.
- 2. Discharges from manufacturing facilities in the following categories:
 - (Lumber and wood products except furniture) except SIC 2434 (Wood kitchen cabinets) (Paper and allied products) except SIC 265 (Paperboard containers and boxes from SIC 26 purchased paperboard) and SIC 267 (Converted paper and paperboard products, except containers and boxes) SIC 28 (Chemicals and allied products) except SIC 283 (Drugs) (Petroleum refining and related industries), except discharges subject to 40 CFR 419 SIC 29 SIC 311 (Leather tanning and finishing) SIC 32 (Stone, clay, glass, and concrete products) except SIC 323 (Glass products made of purchased glass) (Primary metal industries) SIC 3441 (Fabricated structural metal) SIC 373 (Ship and boat building and repairing)
- Facilities classified as SIC Codes 10-14 (Mineral Industry) including active or inactive mining operations and oil and gas exploration, production, processing, treatment operations, or transmission facilities, except discharges subject to 40 CFR 434, 436, or 440.
- 4. Landfills, land application sites (excluding land application sites which utilize agricultural land), and open dumps that receive or have received any industrial wastes (waste that is received from any of the facilities described in 40 CFR 122.26(b)(14).
- Facilities involved in the recycling of materials including metal scrapyards, battery reclaimers, salvage yards, and automobile junkyards including but not limited to SIC 5015 (Used motor vehicle parts) and SIC 5093 (Scrap and waste materials)
- 6. Transportation facilities-portions of the following facilities involved in vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling, and lubrication), equipment cleaning operations, or airport delcing operations:
 - SIC 40 (Railroad transportation)
 - SIC 41 (Local and suburban transit and inter-urban highway passenger transportation)
 - SIC 42 (Motor freight transportation and warehousing) except SIC 4221-4225 (Farm product warehousing and storage, refrigerated warehousing and storage, general warehousing and storage)
 - SIC 43 (United States Postal Service)
 - SIC 44 (Water transportation)
 - SIC 45 (Transportation by air)
 - SIC 5171 (Petroleum bulk stations and terminals-wholesale)

- 7. Treatment Works treating domestic sewage with a design flow of 1 HGD or more, or required to have an approved pretreatment program; includes sludge or wastewater treatment devices or systems used in the storage, treatment, recycling, and reclamation of municipal or domestic sewage, and land dedicated to sludge disposal located within the confines of the facility; excludes off-site sludge management lands, farm lands, and gardens.
- 8. Facilities in the following SIC Codes with storm water discharges from areas (except access roads and rail lines) where material handling equipment or activities, raw materials, intermediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water.

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SIC 20
          (Food and kindred products manufacturing or processing)
SIC 21
          (Tobacco products)
SIC 22
          (Textile mill products)
SIC 23
         (Apparel and other finished products made from fabrics and similar materials)
SIC 2434 (Wood kitchen cabinets)
SIC 25
          (Furniture and fixtures)
SIC 265
          (Paperboard containers and boxes)
SIC 267
          (Converted paper and paperboard products, except containers and boxes)
SIC 27
           (Printing, publishing, and allied industries)
SIC 283
SIC 285
          (Paints, varnishes, lacquers, enamels, and allied products)
SIC 30
           (Rubber and miscellaneous plastics products)
SIC 31
          (Leather and leather products) except SIC 311 (Leather tanning and finishing)
SIC 323
          (Glass products, made of purchased glass)
SIC 34
           (Fabricated metal products, except machinery and transportation equipment) except
           SIC 3441 (Fabricated structural metal)
           (Industrial and commercial machinery and computer equipment)
- SIC 35
           (Electronic and other electrical equipment and components, except computer equipment)
SIC 36
SIC 37
           (Transportation equipment) except SIC 373 (Ship and boat building and repairing)
SIC 38
           (Heasuring, analyzing, and controlling instruments; photographic, medical, and
          optical goods; watches and clocks)
SIC 39
           (Miscellaneous manufacturing industries)
SIC 4221-25 (Farm products warehousing and storage, refrigerated
          warehousing and storage, general warehousing and storage)
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B. TYPES OF DISCHARGES NOT COVERED BY THIS PERMIT

This permit is not applicable to storm water discharges from the following facilities:

1. Discharges subject to storm water effluent limitations guidelines in the following categories;

Cement Hanufacturing (40 CFR 411)
Feedlots (40 CFR 412)
Fertilizer Manufacturing (40 CFR 418)
Petroleum Refining (40 CFR 419)
Phosphate Hanufacturing (40 CFR 422)
Steam Electric (40 CFR 423)
Coal Hining (40 CFR 434)
Hineral Hining and Processing (40 CFR 436)
Ore Hining and Dressing (40 CFR 440)
Asphalt Emulsion (40 CFR 443)

- 2. Hazardous waste treatment, storage or disposal facilities.
- 3. Steam electric power generating facilities, including coal handling sites.
- 4. Construction activity including clearing, grading and excavation activities.
- Storm water discharges associated with industrial activity from facilities with an existing NPDES individual or general permit for the storm water discharges.
- 6. Storm water discharges associated with industrial activity which are identified by the Agency as possibly causing or contributing to a violation of water quality standards.
- 7. Storm water discharges associated with inactive mining or inactive oil and gas operations occurring on Federal lands where an operator cannot be identified.
- 8. Storm water discharges that the Agency determines are not appropriately covered by this general permit.

This permit does not authorize the discharge of hazardous substances or oil resulting from an on-site spill, and does not supercede any reporting requirements for spills or releases of hazardous substances or oil.

C. APPLICATION REQUIREMENTS

- 1. Dischargers seeking coverage under this general permit shall provide the Illinois Environmental Protection Agency (IEPA) with the following information:
 - A completed IEPA Notice of Intent form, accompanied by quantitative sampling data for the storm water discharge(s) if available; or
 - A completed U.S. EPA Form 1, including form 2F and quantitative sampling data if available; or
 - c. A completed U.S. EPA Notice of Intent form, accompanied by quantitative sampling data for the storm water discharge (s) if available.
 - d. Participation in a group application accepted by U.S. EPA shall also be considered as an application for coverage under this general permit, subject to the applicability provisions of this permit.
- 2. Quantitative sampling data as required by U.S. EPA Form 2F for storm water discharges from the following facilities is required to be submitted, unless the facility is a participant in a group application accepted by U.S. EPA. Applications submitted without sample results will be considered complete if sample results are submitted before April 1, 1993.
 - a. Facilities subject to reporting requirements under Section 313 of EPCRA for chemicals classified as "Section 313 water priority chemicals": Storm water discharges that come into contact with any equipment, tank, container, or other vessel or area used for storage of a Section 313 water priority chemical, or located at a truck or rail car unloading area where a Section 313 water priority chemical is handled.
 - b. Facilities classified as SIC 33 (Primary Metal Industries).
 - c. Active or inactive landfills, land application sites, or open dumps without a stabilized final cover which have received any industrial wastes.
 - d. Wood treatment facilities: Storm water discharges from areas that are used for wood treatment, wood surface application, or storage of treated or surface protected wood.
 - e. Coal pile runoff at industrial facilities other than coal mines.
 - f. Battery reclaiming facilities: storm water discharges from areas used for storage of lead acid batteries, reclamation products, or waste products, and areas used for lead acid battery reclamation.
 - g. Airports with over 50,000 flight operations per year: storm water discharges from aircraft or airport deicing areas.
 - h. Heat packing plants, poultry packing plants, and facilities that manufacture animal and marine fats and oils.
 - Facilities classified as SIC 28 (Chemicals and Allied Products) and SIC 30 (Rubber and Hiscellaneous Plastics Products): Storm water discharges that come into contact with solid chemical storage piles.
 - j. Automobile junkyards: Storm water discharges exposed to over 250 auto/truck bodies with drivelines, over 250 drivelines, or any combination thereof (in whole or in parts); over 500 auto/truck units (bodies with or without drivelines in whole or in parts); or over 100 units per year are dismantled and drainage or storage of automotive fluids occurs in areas exposed to storm water.
 - k. Lime manufacturing facilities: storm water discharges that have come into contact with lime storage piles.
 - Coment manufacturing facilities and cement kilns: Storm water discharges other than those subject to 40 CFR 411.
 - m. Ready-mixed concrete facilities.
 - n. Ship building and repairing facilities.
- 3. When a facility has two or more outfalls that, based on consideration of features and activities within the area drained by the outfall, the permittee reasonably believes discharge substantially identical effluents, the permittee may sample the effluent of one such outfall and report that quantitative data also applies to the substantially identical outfalls. If the applicant is requesting approval to sample a representative outfall, identification of all

storm water outfalls considered to be substantially identical along with the outfall being used to represent such outfalls and appropriate justification must be provided with the application.

- 4. For existing facilities with an individual NPDES permit covering storm water associated with industrial activity, or those facilities who have previously submitted an application for an individual permit and not yet received a permit, the permittee/applicant may elect to seek coverage under this general permit in place of obtaining an individual permit. To be considered for coverage the permittee/applicant is required to submit the above information following the general permit issue date.
- 5. For new facilities, the NOI and required information shall be submitted 180 days prior to the date on which the discharge is to commence unless permission for a later date has been granted by the IEPA. Hobile facilities (such as concrete or asphalt batch plants) shall apply at least 30 days prior to discharge:
- 6. For purposes of the permit an existing facility shall be considered a facility which discharged storm water associated with industrial activity prior to the application deadline set by the U.S. EPA storm water regulations. A new facility is a facility which generates storm water after, but not before the deadline.
- 7. The required information shall be submitted to the following address:

Illinois Environmental Protection Agency Division of Water Pollution Control Permit Section Post Office Box 19276 Springfield, Illinois 62794-9276

- 8. In any case where an NPDES Permit has been timely applied for but final administrative disposition of such application has not been made, it shall not be a violation of Section 12(F) of the Environmental Protection Act to discharge without such permit unless the complainant proves that final administrative disposition has not been made because of the failure of the applicant to furnish information reasonably required or requested in order to process the application. For purposes of this provision, participation in a group application filled with U.S. EPA shall be deemed an application filled with the Agency. This provision does not relieve the applicant from the responsibility for compliance with any other requirement of the Act or regulations promulgated under the Act.
- Facilities which discharge storm water associated with industrial activity to a municipal separate storm sewer system shall notify the municipality, and shall provide the municipality with a copy of their application if requested.

D. STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

- 1. A storm water pollution prevention plan shall be developed by the permittee for each facility covered by this permit. The plan shall identify potential sources of pollution which may be expected to affect the quality of storm water discharges associated with the industrial activity at the facility. In addition, the plan shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit.
- 2. The plan shall be completed within 180 days of notification by the Agency of coverage by this permit or in the case of new facilities, prior to submitting an NOI to be covered under this permit. Plans shall provide for compliance with the terms of the plan within 365 days of notification by the Agency of coverage by this permit, or in the case of new facilities, prior to submitting an NOI to be covered under this permit. The owner or operator of a facility with storm water discharges covered by this permit shall make a copy of the plan available to the Agency at any reasonable time upon request.

Facilities which discharge to a municipal separate storm sewer system shall also make a copy available to the operator of the municipal system at any reasonable time upon request.

- 3. The permittee may be notified by the Agency at any time that the plan does not meet the requirements of this permit. After such notification, the permittee shall make changes to the plan and shall submit a written certification that the requested changes have been made. Unless otherwise provided, the permittee shall have 30 days after such notification to make the changes.
- 4. The discharger shall amend the plan whenever there is a change in construction, operation, or maintenance which may affect the discharge of significant quantities of pollutants to the waters of the State or if a facility inspection required by paragraph 0.8. of this permit indicates that an amendment is needed. The plan should also be amended if the discharger is

in violation of any conditions of this permit, or has not achieved the general objectives of controlling pollutants in storm water discharges. Amendments to the plan shall be made within the shortest reasonable period of time, and shall be provided to the Agency for review upon request.

- 5. The plan shall provide a description of potential sources which may be expected to add significant quantities of pollutants to storm water discharges, or which may result in non-storm water discharges from the facility. The plan shall include, at a minimum, the following items:
 - a. A topographic map extending one-quarter mile beyond the property boundaries of the facility, showing: the facility, surface water bodies, wells (including injection wells), seepage pits, infiltration ponds, and the discharge points where the facility's storm water discharges to a municipal storm drain system or other water body. The requirements of this paragraph may be included on the site map if appropriate.
 - b. A site map showing:
 - The storm water conveyance and discharge structures:
 - An outline of the storm water drainage areas for each storm water discharge point;
 - 111. Paved areas and buildings;
 - Areas used for outdoor manufacturing, storage, or disposal of significant materials, including activities that generate significant quantities of dust or particulates.
 - Location of existing storm water structural control measures (dikes, coverings, detention facilities, etc.);
 - Surface water locations and/or municipal storm drain locations
 - vii. Areas of existing and potential soil erosion;
 - viii. Vehicle service areas;
 - Material loading, unloading, and access areas.
 - A narrative description of the following:
 - The nature of the industrial activities conducted at the site, including a description of significant materials that are treated, stored or disposed of in a manner to allow exposure to storm water;
 - Materials, equipment, and vehicle management practices employed to minimize contact 11. of significant materials with storm water discharges; - and dey
 - 111. Existing structural and non-structural control measures to reduce pollutants in storm water discharges: willown, dock partially conferming and
 - Industrial storm water discharge treatment facilities; iv.
 - Methods of onsite storage and disposal of significant materials; sported inside in a reing ٧.
 - d. A list of the types of pollutants that have a reasonable potential to be present in storm water discharges in significant quantities. -- 1
 - An estimate of the size of the facility in acres or square feet, and the percent of the facility that has impervious areas such as pavement or buildings.
 - f. A summary of existing sampling data describing pollutants in storm water discharges.
- 6. The plan shall describe the storm water management controls which will be implemented by the facility. The appropriate controls shall reflect identified existing and potential sources of pollutants at the facility. The description of the storm water management controls shall

Storm Water Pollution Prevention Personnel - Identification by job titles of the fill final individuals who are responsible for developing, implementing, and revises. individuals who are responsible for developing, implementing, and revising the plan. The plan is the p

orb.) Preventive Haintenance - Procedures for inspection and maintenance of storm water conveyance system devices such as oil/water separators, catch basins, etc., and inspection

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- Good Housekeeping Good housekeeping requires the maintenance of clean, orderly facility areas that discharge storm water. Haterial handling areas shall be inspected and cleaned to reduce the potential for pollutants to enter the storm water conveyance system.
- Spill Prevention and Response Identification of areas where significant materials can spill into or otherwise enter the storm water conveyance systems and their accompanying drainage points. Specific material handling procedures, storage requirements, spill clean up equipment and procedures should be identified, as appropriate. Internal notification procedures for spills of significant materials should be established.
 - Storm Water Management Practices Storm water management practices are practices other than those which control the source of pollutants. They include measures such as installing oil and grit separators, diverting storm water into retention basins, etc. Based on assessment of the potential of various sources to contribute pollutants. measures to remove pollutants from storm water discharge shall be implemented. In developing the plan, the following management practices shall be considered:
 - Containment Storage within berms or other secondary containment devices to prevent leaks and spills from entering storm water runoff:
 - 011 & Grease Separation 011/water separators, booms, skimmers or other methods to minimize oil contaminated storm water discharges:
 - iii. Debris & Sediment Control Screens, booms, sediment pands or other methods to reduce debris and sediment in storm water discharges:
 - Waste Chemical Disposal Waste chemicals such as antifreeze, degreasers and used oils shall be recycled or disposed of in an approved manner and in a way which prevents them from entering storm water discharges. USEC 5, 15 picker p & elisposed
 - Storm Water Diversion Storm water diversion away from materials manufacturing. At MINUTE storage and other areas of notestial storage and other areas of notestial storage.
 - storage and other areas of potential storm water contamination;
 vi. Covered Storage or Manufacturing Areas Covered fueling operations, materials manufacturing and storage areas to prevent contact with storm water.
- Sediment and Erosion Prevention The plan shall identify areas which due to topography. activities, or other factors, have a high potential for significant soil erosion and prefinity describe measures to limit erosion.
- Employee Training Employee training programs shall inform personnel at all levels of responsibility of the components and goals of the storm water pollution control plan. Training should address topics such as spill response, good housekeeping and material management practices. The plan shall identify periodic dates for such training.
- /Inspection Procedures Qualified plant personnel shall be identified to inspect designated equipment and plant areas. A tracking or follow-up procedure shall be used to ensure appropriate response has been taken in response to an inspection. Inspections and maintenance activities shall be documented and recorded.
- 7. Non-Storm water Discharges The plan shall include a certification that the discharge has been tested or evaluated for the presence of non-storm water discharges. The certification shall include a description of any tests for the presence of non-storm water discharges, the methods used, the dates of the testing, and any onsite drainage points that were observed during the testing. Any facility that is unable to provide this certification must describe the procedure of any test conducted for the presence of non-storm water discharges, the test results, potential sources of non-storm water discharges to the storm sewer, and why adequate tests for such storm sewers were not feasible. Discharges not comprised entirely of storm water are not authorized by this permit.
 - The permittee shall conduct an annual facility inspection to verify that all elements of the plan. including the site map, potential pollutant sources, and structural and non-structural controls to reduce pollutants in industrial storm water discharges are accurate. Observations that require a response and the appropriate response to the observation shall be retained as part of the plan. Records documenting significant observations made during the site inspection shall be submitted to the Agency in accordance with the reporting requirements of this permit.
- 9. This plan should briefly describe the appropriate elements of other program requirements. including Spill Prevention Control and Countermeasures (SPCC) plans required under Section 311 of the CWA and the regulations promulgated thereunder, and Best Management Programs under 40 CFR 125.100.
- 10. The plan is considered a report that shall be available to the public under Section 308(b) of the CWA. The permittee may claim portions of the plan as confidential business information. including any portion describing facility security measures.

- 11. The plan shall include the signature and title of the person responsible for preparation of the plan and include the date of initial preparation and each amendment thereto.
- 12. Facilities which discharge storm water associated with industrial activity to municipal separate storm sewers may also be subject to additional requirements imposed by the operator of the municipal system.

E. CONSTRUCTION AUTHORIZATION

Authorization is hereby granted to construct treatment works and related equipment that may be required by the Storm Water Pollution Prevention Plan developed pursuant to this permit.

This Authorization is issued subject to the following condition(s).

- 1. If any statement or representation is found to be incorrect, this authorization may be revoked and the permittee thereupon waives all rights thereunder.
- 2. The issuance of this authorization (a) does not release the permittee from any liability for damage to persons or property caused by or resulting from the installation, maintenance or operation of the proposed facilities; (b) does not take into consideration the structural stability of any units or part of this project; and (c) does not release the permittee from compliance with other applicable statutes of the State of Illinois, or other applicable local law, regulations or ordinances.
- 3. Plans and specifications of all treatment equipment being included as a part of the stormwater management practice shall be included in the SWPPP.
- 4. Any modification of or deviation from the plans and specifications originally submitted with the initial SWPPP requires amendment of the SWPPP.
- 5. Construction activities which result from treatment equipment installation, including cleaning, grading and excavation activities which result in the disturbance of five acres or more of land area, are not covered by this authorization. The permittee shall contact the IEPA regarding required permit(s).

F. REPORTING

- 1. The facility shall submit an annual inspection report to the Illinois Environmental Protection Agency. The report shall include results of the annual facility inspection which is required by Part 8 of the Storm Water Pollution Prevention Plan of this permit. The report shall also include documentation of any event (spill, treatment unit malfunction, etc.) which would require an inspection, results of the inspection, and any subsequent corrective maintenance activity. The report shall be completed and signed by the authorized facility employee(s) who conducted the inspection(s).
- 2. The first report shall contain information gathered during the one year time period beginning with the effective date of coverage under this permit and shall be submitted no later than 60 days after this one year period has expired. Each subsequent report shall contain the previous year's information and shall be submitted no later than one year after the previous year's report was due.
- 3. Annual inspection reports shall be mailed to the following address:

Illinois Environmental Protection Agency Division of Water Pollution Control Compliance Assurance Section Annual Inspection Report 2200 Churchill Road P.O. Box 19276 Springfield, Illinois 62794-9276

4. If the facility performs inspections more frequently than required by this permit, the results shall be included as additional information in the annual report.

G. TERMINATION OF COVERAGE UNDER THIS PERMIT

1. Where all storm water discharges associated with industrial activity that have been authorized by this permit are eliminated, the operator of the facility may submit a termination request to the Agency at the address shown on Page 5 of this permit. The termination request shall include the name, address, telephone number, and location of the facility, and a description of actions taken to eliminate the storm water discharge or other justification for the request. Coverage under this permit is not terminated until the Agency acts on the termination request, and reports as described above are required until coverage is terminated.

- 2. The Agency may require any person authorized by this permit to apply for and obtain either an individual NPDES permit or an alternative NPDES general permit. Any interested person may petition the Agency to take action under this paragraph. The Agency may require any owner or operator authorized to discharge under this permit to apply for an individual NPDES permit only if the owner or operator has been notified in writing that a permit application is required. This notice shall include a brief statement of the reasons for this decision, an application form, a statement setting a deadline for the owner or operator to file the application, and a statement that on the effective date of the individual NPDES permit or the alternative general permit as it applies to the individual permittee, coverage under this general permit shall automatically terminate. The Agency may grant additional time to submit the application upon request of the applicant. If an owner or operator fails to submit in a timely manner an individual NPDES permit application required by the Agency under this paragraph then the applicability of this permit to the individual NPDES permitted is automatically terminated at the end of the day specified for application submittal.
- 3. Any owner or operator authorized by this permit may request to be excluded from the coverage of this permit by applying for an individual permit. The owner or operator shall submit an individual application with reasons supporting the request, in accordance with the requirements of 40 CFR 122.28, to the Agency. The request shall be granted by issuing of an individual permit or an alternative general permit if the reasons cited by the owner or operator are adequate to support the request.
- 4. When an individual NPDES permit is issued to an owner or operator otherwise subject to this permit, or the owner or operator is approved for coverage under an alternative NPDES general permit, the applicability of this permit to the individual NPDES permittee is automatically terminated on the issue date of the individual permit or the date of approval for coverage under the alternative general permit, whichever the case may be. When an individual NPDES permit is denied to an owner or operator otherwise subject to this permit, or the owner or operator is denied coverage under an alternative NPDES general permit the applicability of this permit to the individual NPDES permitted is automatically terminated on the date of such denial, unless otherwise specified by the Agency.

H. RENEWAL

- 1. Application forms for renewal procedures, including coverage under this general permit, will be available approximately one year prior to the expiration date.
- Any Permittee who wishes to continue to discharge after the expiration date of this general
 permit shall apply for reissuance of the permit not less than 180 days prior to the expiration
 date of this permit.

I. DEFINITIIONS

- 1. Coal pile runoff means the rainfall runoff from or through any coal storage pile.
- Land application unit means an area where wastes are applied onto or incorporated into the soil surface (excluding manure spreading operations) for treatment or disposal.
- Landfill means an area of land or an excavation in which wastes are placed for permanent disposal, and which is not a land application unit, surface impoundment, injection well or waste pile.
- 4. Section 313 water priority chemical means a chemical or chemical categories which: I) Are listed at 40 CFR 372.65 pursuant to Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) (also known as Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986); 2) are present at or above threshold levels at a facility subject to EPCRA Section 313 reporting requirements; and 3) that meet at least one of the following criteria: (i) Are listed in Appendix D of 40 CFR 122 on either Table II (organic priority pollutants), Table III (certain metals, cyanides, and phenols) or Table V (certain toxic pollutants and hazardous substances); (ii) are listed as a hazardous substance pursuant to section 311(b)(2)(A) of the CWA at 40 CFR 116.4; or (iii) are pollutants for which EPA has published acute or chronic water quality criteria.
- 5. Significant materials includes, but is not limited to: raw materials; fuels; materials such as solvents, detergents, and plastic pellets; finished materials such as metallic products; raw materials used in food processing or production; hazardous substances designated under section 101(14) of CERCLA; any chemical the facility is required to report pursuant to EPCRA Section 313; fertilizers; pesticides; and waste products such as ashes, slag and sludge that have the potential to be released with storm water discharges.
- 6. <u>Significant spills</u> includes, but is not limited to: releases of oil or hazardous substances in excess of reportable quantities under section 311 of the Clean Water Act (see 40 CFR 110.10 and CFR 117.21) or section 102 of CERCLA (see 40 CFR 302.4).

Note that additional definitions are included in the permit Standard Conditions, Attachment H.

e. Storm water discharges that the Agency, at its discretion, determines are not appropriately authorized or controlled by this general permit.

C. Authorization.

- In order for storm water discharges from construction sites to be authorized to discharge under this general permit a discharger must submit a Notice of Intent (NOI) in accordance with the requirements of Part II below, using an NOI from provided by the Agency, or be covered by a valid Illinois General NPDES Construction Site Activities Permit.
- Where a new operator (contractor) is selected after the submittal of an NOI under Part II below, a new Notice of Intent (NOI) must be submitted
 by the owner in accordance with Part II.
- For projects that have complied with State law on historic preservation and endangered species prior to submittal of the NOI, through coordination
 with the Illinois Historic Preservation Agency and the Illinois Department of Natural Resources or through fulfillment of the terms of interagency
 agreements with those agencies, the NOI shall indicate that such compliance has occurred.

Unless notified by the Agency to the contrary, dischargers who submit an NOI in accordance with the requirements of this permit are authorized to discharge storm water from construction sites under the terms and conditions of this permit either:

- 48 hours after the date the NOI is postmarked, if the project had established compliance with Illinois law regarding historic preservation and endangered species prior to submittal of the NOI;
- b. 30 days after the date the NOI is postmarked, if the project had not established compliance with Illinois historic preservation and endangered species requirements prior to submittal of the NOI.

The Agency may deny coverage under this permit and require submittal of an application for an individual NPDES permit based on a review of the NOI or other information.

Part II. NOTICE OF INTENT REQUIREMENTS

A. Deadlines for Notification.

- 1. To receive authorization under this general permit, a discharge must either be covered by a valid Illinois General NPDES Construction Site Permit, or a Notice of Intent (NOI) in accordance with the requirements of this part must be submitted prior to the commencement of construction. For projects that have established compliance with Illinois law regarding historic preservation and endangered species prior to submittal of the NOI, the NOI must be submitted at least 48 hours prior to the commencement of construction. For all other projects, the NOI must be submitted at least 30 days prior to the commencement of construction.
- 2. Discharges that are covered by a valid Illinois General NPDES Construction Site Activities Permit are automatically covered by this permit.
- 3. A discharger may submit an NOI in accordance with the requirements of this part after the start of construction. In such instances, the Agency may bring an enforcement action for any discharges of storm water associated with industrial activity from a construction site that have occurred on or after the start of construction.
- B. Failure to Notify. Dischargers who fail to notify the Agency of their intent to be covered, and discharge storm water associated with construction site activity to Waters of the State without an NPDES permit, are in violation of the Environmental Protection Act and Clean Water Act.
- C. Contents of Notice of Intent. The Notice of Intent shall be signed in accordance with Part VI.G (Signatory Requirements) of this permit by all of the entities identified in paragraph 2 below and shall include the following information:
 - 1. The mailing address, and location of the construction site for which the notification is submitted. Where a mailing address for the site is not available, the location can be described in terms of the latitude and longitude of the approximate center of the facility to the nearest 15 seconds, or the nearest quarter section (if the section, township and range is provided) that the construction site is located in;
 - 2. The owner's name, address, telephone number, and status as Federal, State, private, public or other entity.
 - 3. The name, address and telephone number of the general contractor(s) that have been identified at the time of the NOI submittal;
 - 4. The name of the receiving water(s), or if the discharge is through a municipal separate storm sewer, the name of the municipal operator of the storm sewer and the ultimate receiving water(s);
 - The number of any NPDES permit for any discharge (including non-storm water discharges) from the site that is currently authorized by an NPDES
 permit.
 - 6. A yes or no indication of whether the owner or operator has existing quantitative data which describes the concentration of pollutants in storm water discharges (existing data should not be included as part of the NOI); and
 - 7. A brief description of the project, estimated timetable for major activities, estimates of the number of acres of the site on which soil will be disturbed, and a certification that a storm water pollution prevention plan has been prepared for the facility in accordance with Part IV of this permit, and such plan provides compliance with local sediment and erosion plans or permits and/or storm water management plans or permits in accordance with paragraph VI.G.1 (Signatory Requirements) of this permit. (A copy of the plans or permits should not be included with the NOI submission).

NPDES Permit No. ILR10

Illinois Environmental Protection Agency Division of Water Pollution Control 1021 North Grand East Post Office Box 19276 Springfield, Illinois 62794-9276

CONSTRUCTION SITE ACTIVITIES

NATIONAL POLLUTANT DISCHARGE ELIMINATIC CONSTRUCTION (NPDES) Storm Water Permit

Expiration Date:

May 31, 2003

Issue Date:

Mav

Effective Date:

June 1, 1998

In compliance with the provisions of the Illinois Environmental Protection Act, the Illinois Pollution Control Board Rules and Regulations (35 fil. Adm. Code, Subtitle C, Chapter I), and the Clean Water Act, and the regulations thereunder the following discharges are authorized by this permit, in accordance with the conditions and attachments herein:

Thomas G. McSwiggin, P.E. Manager, Permit Section

Division of Water Pollution Control

Part I. COVERAGE UNDER THIS PERMIT

A. Permit Area. The permit covers all areas of the State of Illinois with discharges to any waters of the State.

B. Eligibility.

- 1. This permit shall authorize all discharges of storm water associated with industrial activity from construction sites, (those sites or common plans of development or sale that will result in the disturbance of five or more acres total land area), (heretofore referred to as storm water discharges from construction activities) occurring after the effective date of this permit (including discharges occurring after the effective date of this permit where the construction activity was initiated before the effective date of this permit), except for discharges identified under paragraph I.B.3 (Limitations on Coverage).
- 2. This permit may only authorize a storm water discharge associated with industrial activity from a construction site that is mixed with a storm water discharge from an industrial source other than construction, where:
 - a. the industrial source other than construction is located on the same site as the construction activity;
 - b. storm water discharges associated with industrial activity from the areas of the site where construction activities are occurring are in compliance with the terms of this permit; and
 - c. storm water discharges associated with industrial activity from the areas of the site where industrial activity other than construction are occurring (including storm water discharges from dedicated asphalt plants and dedicated concrete plants) are covered by a different NPDES general permit or individual permit authorizing such discharges.
- 3. Limitations on Coverage. The following storm water discharges from construction sites are not authorized by this permit:
 - a. storm water discharges associated with industrial activity that originate from the site after construction activities have been completed and the site has undergone final stabilization.
 - discharges that are mixed with sources of non-storm water other than discharges identified in Part III.A (Prohibition on Non-Storm Water Discharges) of this permit and in compliance with paragraph IV.D.5 (Non-Storm Water Discharges) of this permit.
 - c. storm water discharges associated with industrial activity that are subject to an existing NPDES individual or general permit or which are issued a permit in accordance with Part VI.N (Requiring an Individual Permit or an Alternative General Permit) of this permit. Such discharges may be authorized under this permit after an existing permit expires provided the existing permit did not establish numeric limitations for such discharges; and
 - d. storm water discharges from construction sites that the Agency has determined to be or may reasonably be expected to be contributing to a violation of a water quality standard.

Part IV. STORM WATER POLLUTION PREVENTION PLANS

A storm water pollution prevention plan shall be developed for each construction site covered by this permit. Storm water pollution prevention plans shall be prepared in accordance with good engineering practices. The plan shall identify potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges associated with construction site activity from the facility. In addition, the plan shall describe and ensure the implementation of practices which will be used to reduce the pollutants in storm water discharges associated with construction site activity and to assure compliance with the terms and conditions of this permit. Facilities must implement the provisions of the storm water pollution prevention plan required under this part as a condition of this permit.

A. Deadlines for Plan Preparation and Compliance.

The plan shall:

- Be completed prior to the start of the construction to be covered under this permit and updated as appropriate;
- 2. Provide for compliance with the terms and schedule of the plan beginning with the initiation of construction activities.

B. Signature and Plan Review.

- 1. The plan shall be signed in accordance with Part VI.G (Signatory Requirements), and be retained on-site at the facility which generates the storm water discharge in accordance with Part VI.E (Duty to Provide Information) of this permit.
- 2. The permittee shall make plans available upon request from this Agency or a local agency approving sediment and erosion plans, grading plans, or storm water management plans; or in the case of a storm water discharge associated with industrial activity which discharges through a municipal separate storm sewer system with an NPDES permit, to the municipal operator of the system.
- 3. The Agency may notify the permittee at any time that the plan does not meet one or more of the minimum requirements of this Part. Such notification shall identify those provisions of the permit which are not being met by the plan, and identify which provisions of the plan requires modifications in order to meet the minimum requirements of this part. Within 7 days from receipt of notification from the Agency, the permittee shall make the required changes to the plan and shall submit to the Agency a written certification that the requested changes have been made. Failure to comply shall terminate authorization under this permit.
- 4. All storm water pollution prevention plans required under this permit are considered reports that shall be available to the public under Section 308(b) of the CWA. The permittee shall make plans available to members of the public upon request by the public. However, the permittee may claim any portion of a storm water pollution prevention plan as confidential in accordance with 40 CFR Part 2.
- C. Keeping Plans Current. The permittee shall amend the plan whenever there is a change in design, construction, operation, or maintenance, which has a significant effect on the potential for the discharge of pollutants to the Waters of the State and which has not otherwise been addressed in the plan or if the storm water pollution prevention plan proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified under paragraph D.2 below, or in otherwise achieving the general objectives of controlling pollutants in storm water discharges associated with construction site activity. In addition, the plan shall be amended to identify any new contractor and/or subcontractor that will implement a measure of the storm water pollution prevention plan. Amendments to the plan may be reviewed by the Agency in the same manner as Part IV.B above.
- D. Contents of Plan. The storm water pollution prevention plan shall include the following items:
 - 1. Site Description. Each plan shall, provide a description of the following:
 - A description of the nature of the construction activity:
 - b. A description of the intended sequence of major activities which disturb soils for major portions of the site (e.g. grubbing, excavation, grading);
 - c. Estimates of the total area of the site and the total area of the site that is expected to be disturbed by excavation, grading, or other activities;
 - d. An estimate of the runoff coefficient of the site after construction activities are completed and existing data describing the soil or the quality
 - of any discharge from the site;
 - e. A site map indicating drainage patterns and approximate slopes anticipated before and after major grading activities, locations where vehicles enter or exit the site and controls to prevent offsite sediment tracking, areas of soil disturbance, the location of major structural and nonstructural controls identified in the plan, the location of areas where stabilization practices are expected to occur, surface waters (including wetlands), and locations where storm water is discharged to a surface water; and
 - f. The name of the receiving water(s) and the ultimate receiving water(s), and areal extent of wetland acreage at the site.
 - 2. Controls. Each plan shall include a description of appropriate controls that will be implemented at the construction site. The plan will clearly describe for each major activity identified in paragraph D.1 above, appropriate controls and the timing during the construction process that the controls will be implemented. (For example, perimeter controls for one portion of the site will be installed after the clearing and grubbing necessary for installation of the measure, but before the clearing and grubbing for the remaining portions of the site. Perimeter controls will be actively maintained until final stabilization of those portions of the site upward of the perimeter control. Temporary perimeter controls will be removed after final stabilization). The description of controls shall address as appropriate the following minimum components:
 - a. Erosion and Sediment Controls.

D. Where to Submit.

 Facilities which discharge storm water associated with construction site activity must use a NOI form provided by the Agency. NOIs must be signed in accordance with Part VI.G (Signatory Requirements) of this permit. NOIs are to be submitted certified mail to the Agency at the following address:

Illinois Environmental Protection Agency Division of Water Pollution Control Attention: Permit Section 1021 North Grand East Post Office Box 19276 Springfield, Illinois 62794-9276

- 2. A copy of the letter of notification of coverage or other indication that storm water discharges from the site are covered under an NPDES permit shall be posted at the site in a prominent place for public viewing (such as alongside a building permit).
- E. Additional Notification. Facilities which are operating under approved local sediment and erosion plans, grading plans, or storm water management plans, in addition to filing copies of the Notice of Intent in accordance with Part D above, shall also submit signed copies of the Notice of Intent to the local agency approving such plans in accordance with the deadlines in Part A above. See Part IV.D.2.d (Approved State or Local Plans).
- F. Notice of Termination. Where a site has been finally stabilized and all storm water discharges from construction sites that are authorized by this permit are eliminated, the permittee of the facility may submit a Notice of Termination that is signed in accordance with Part VI.G (Signatory Requirements) of this permit.
 - 1. The Notice of Termination shall include the following information:
 - a. The mailing address, and location of the construction site for which the notification is submitted. Where a mailing address for the site is not available, the location can be described in terms of the latitude and longitude of the approximate center of the facility to the nearest 15 seconds, or the nearest quarter section (if the section, township and range is provided) that the construction site is located in;
 - b. The owner's name, address, telephone number, and status as Federal, State, private, public or other entity.
 - c. The name, address and telephone number of the general contractor(s);
 - d. The following certification signed in accordance with Part VI.G (Signatory Requirements) of this permit:

"I certify under penalty of law that all storm water discharges associated with construction site activity from the identified facility that are authorized by NPDES general permit ILR100000 have otherwise been eliminated. I understand that by submitting this notice of termination, that I am no longer authorized to discharge storm water associated with construction site activity by the general permit, and that discharging pollutants in storm water associated with construction site activity to Waters of the State is unlawful under the Environmental Protection Act and Clean Water Act where the discharge is not authorized by a NPDES permit. I also understand that the submittal of this notice of termination does not release an operator from liability for any violations of this permit or the Clean Water Act."

For the purposes of this certification, elimination of storm water discharges associated with industrial activity means that all disturbed soils at the identified facility have been finally stabilized and temporary erosion and sediment control measures have been removed or will be removed at an appropriate time, or that all storm water discharges associated with construction activities from the identified site that are authorized by a NPDES general permit have otherwise been eliminated.

2. All Notices of Termination are to be sent, using the form provided by the Agency to the address in paragraph II.D.1.

Part III. SPECIAL CONDITIONS, MANAGEMENT PRACTICES, AND OTHER NON-NUMERIC LIMITATIONS

- A. Prohibition on Non-Storm Water Discharges.
 - Except as provided in paragraph I.B.2 and 2 below, all discharges covered by this permit shall be composed entirely of storm water.
 - 2. a. Except as provided in paragraph b below, discharges of materials other than storm water must be in compliance with a NPDES permit (other than this permit) issued for the discharge.
 - b. The following non-storm water discharges may be authorized by this permit provided the non-storm water component of the discharges is in compliance with paragraph IV.D.5 (Non-Storm Water Discharges): discharges from fire fighting activities; fire hydrant flushings; waters used to wash vehicles or control dust; potable water sources including waterline flushings; irrigation drainages; routine external building washdown which does not use detergents; pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used; air conditioning condensate; springs; uncontaminated ground water; and foundation or footing drains where flows are not contaminated with process materials such as solvents.

- (i). Stabilization Practices. A description of interim and permanent stabilization practices, including site-specific scheduling of the implementation of the practices. Site plans should ensure that existing vegetation is preserved where attainable and that disturbed portions of the site are stabilized. Stabilization practices may include: temporary seeding, permanent seeding, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, preservation of mature vegetation, and other appropriate measures. A record of the dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated shall be included in the plan. Except as provided in paragraphs (A) and (B) below, stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased.
 - (A). Where the initiation of stabilization measures by the 14th day after construction activity temporary or permanently cease is precluded by snow cover, stabilization measures shall be initiated as soon as practicable.
 - (B). Where construction activity will resume on a portion of the site within 21 days from when activities ceased, (e.g. the total time period that construction activity is temporarily ceased is less than 21 days) then stabilization measures do not have to be initiated on that portion of site by the 14th day after construction activity temporarily ceased.
- (ii) <u>Structural Practices</u>. A description of structural practices to the degree attainable, to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Such practices may include silt fences, earth dikes, drainage swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, and temporary or permanent sediment basins. Structural practices should be placed on upland soils to the degree attainable. The installation of these devices may be subject to Section 404 of the CWA.
- b. Storm Water Management. A description of measures that will be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. Structural measures should be placed on upland soils to the degree attainable. The installation of these devices may be subject to Section 404 of the CWA. This permit only addresses the installation of storm water management measures, and not the ultimate operation and maintenance of such structures after the construction activities have been completed and the site has undergone final stabilization. Permittees are responsible for only the installation and maintenance of storm water management measures prior to final stabilization of the site, and are not responsible for maintenance after storm water discharges associated with industrial activity have been eliminated from the site.
 - (i). Such practices may include: storm water detention structures (including wet ponds); storm water retention structures; flow attenuation by use of open vegetated swales and natural depressions; infiltration of runoff onsite; and sequential systems (which combine several practices). The pollution prevention plan shall include an explanation of the technical basis used to select the practices to control pollution where flows exceed predevelopment levels.
 - (ii). Velocity dissipation devices shall be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected (e.g. maintenance of hydrologic conditions, such as the hydroperiod and hydrodynamics present prior to the initiation of construction activities).

c. Other Controls.

- (i). Waste Disposal. No solid materials, including building materials, shall be discharged to Waters of the State, except as authorized by a Section 404 permit.
- (ii). The plan shall ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.

d. Approved State or Local Plans.

- (i). The management practices, controls and other provisions contained in the storm water pollution prevention plan must be at least as protective as the requirements contained in Illinois Environmental Protection Agency's Illinois Urban Manual, 1995. Facilities which discharge storm water associated with construction site activities must include in their storm water pollution prevention plan procedures and requirements specified in applicable sediment and erosion site plans or storm water management plans approved by local officials. Requirements specified in sediment and erosion site plans or site permits or storm water management site plans or site permits approved by local officials that are applicable to protecting surface water resources are, upon submittal of an NOI to be authorized to discharge under this permit, incorporated by reference and are enforceable under this permit even if they are not specifically included in a storm water pollution prevention plan required under this permit. This provision does not apply to provisions of master plans, comprehensive plans, non-enforceable guidelines or technical guidance documents that are not identified in a specific plan or permit that is issued for the construction site.
- (ii) Dischargers seeking alternative permit requirements are not authorized by this permit and shall submit an individual permit application in accordance with 40 CFR 122.26 at the address indicated in Part II.D (Where to Submit) of this permit, along with a description of why requirements in approved local plans or permits should not be applicable as a condition of an NPDES permit.
- 3. Maintenance. A description of procedures to maintain in good and effective operating conditions vegetation, erosion and sediment control measures and other protective measures identified in the site plan.
- 4. Inspections. Qualified personnel (provided by the permittee) shall inspect disturbed areas of the construction site that have not been finally stabilized, structural control measures, and locations where vehicles enter or exit the site at least once every seven calendar days and within 24 hours of the end of a storm that is 0.5 inches or greater or equivalent snowfall.

- a. Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking.
- b. Based on the results of the inspection, the description of potential pollutant sources identified in the plan in accordance with paragraph IV.D.1 (Site Description) of this permit and pollution prevention measures identified in the plan in accordance with paragraph IV.D.2 (Controls) of this permit shall be revised as appropriate as soon as practicable after such inspection. Such modifications shall provide for timely implementation of any changes to the plan within 7 calendar days following the inspection.
- c. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the storm water pollution prevention plan, and actions taken in accordance with paragraph b above shall be made and retained as part of the storm water pollution prevention plan for at least three years after the date of inspection. The report shall be signed in accordance with Part VI.G (Signatory Requirements) of this permit.
- d. The permittee shall complete and submit within 5 days an "Incidence of Noncompliance" (ION) report for any violation of the storm water pollution prevention plan observed during an inspection conducted, including those not required by the Plan. Submission shall be on forms provided by the Agency and include specific information on the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance.
- e. All reports of noncompliance shall be signed by a responsible authority as defined in Part VI.G (Signatory Requirements).
- f. All reports of noncompliance shall be mailed to the Agency at the following address:

Illinois Environmental Protection Agency Division of Water Pollution Control Compliance Assurance Section 1021 North Grand East Post Office Box 19276 Springfield, Illinois 62794-9276

- 5. Non-Storm Water Discharges Except for flows from fire fighting activities, sources of non-storm water listed in paragraph III.A.2 of this permit that are combined with storm water discharges associated with industrial activity must be identified in the plan. The plan shall identify and insure the implementation of appropriate pollution prevention measures for the non-storm water component(s) of the discharge.
- E. Additional requirements for storm water discharge from industrial activities other than construction, including dedicated asphalt plants, and dedicated concrete plants. This permit may only authorize a storm water discharge associated with industrial activity from a construction site that is mixed with a storm water discharge from an industrial source other than construction, where:
 - the industrial source other than construction is located on the same site as the construction activity;
 - 2 storm water discharges associated with industrial activity from the areas of the site where construction activities are occurring are in compliance with the terms of this permit; and
 - 3. storm water discharges associated with industrial activity from the areas of the site where industrial activity other than construction are occurring (including storm water discharges from dedicated asphalt plants (other than asphalt emulsion facilities) and dedicated concrete plants) are in compliance with the terms, including applicable NOI or application requirements, of a different NPDES general permit or individual permit authorizing such discharges.

F. Contractors.

- 1. The storm water pollution prevention plan must clearly identify for each measure identified in the plan, the contractor(s) or subcontractor(s) that will implement the measure. All contractors and subcontractors identified in the plan must sign a copy of the certification statement in paragraph 2 below in accordance with Part VI.G (Signatory Requirements) of this permit. All certifications must be included in the storm water pollution prevention plan except for owners that are acting as contractor.
- 2. Certification Statement. All contractors and subcontractors identified in a storm water pollution prevention plan in accordance with paragraph 1 above shall sign a copy of the following certification statement before conducting any professional service at the site identified in the storm water pollution prevention plan:

"I certify under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit (ILR100000) that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification."

The certification must include the name and title of the person providing the signature in accordance with Part VI.G of this permit; the name, address and telephone number of the contracting firm; the address (or other identifying description) of the site; and the date the certification is made.

Part V. RETENTION OF RECORDS

A. The permittee shall retain copies of storm water pollution prevention plans and all reports and notices required by this permit, and records of all data used to complete the Notice of Intent to be covered by this permit, for a period of at least three years from the date that the site is finally stabilized. This period may be extended by request of the Agency at any time.

NPDES Permit No. ILR10

- a. Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking.
- b. Based on the results of the inspection, the description of potential pollutant sources identified in the plan in accordance with paragraph IV.D.1 (Site Description) of this permit and pollution prevention measures identified in the plan in accordance with paragraph IV.D.2 (Controls) of this permit shall be revised as appropriate as soon as practicable after such inspection. Such modifications shall provide for timely implementation of any changes to the plan within 7 calendar days following the inspection.
- c. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the storm water pollution prevention plan, and actions taken in accordance with paragraph b above shall be made and retained as part of the storm water pollution prevention plan for at least three years after the date of inspection. The report shall be signed in accordance with Part VI.G (Signatory Requirements) of this permit.
- d. The permittee shall complete and submit within 5 days an "Incidence of Noncompliance" (ION) report for any violation of the storm water pollution prevention plan observed during an inspection conducted, including those not required by the Plan. Submission shall be on forms provided by the Agency and include specific information on the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance.
- e. All reports of noncompliance shall be signed by a responsible authority as defined in Part VI.G (Signatory Requirements),
- f. All reports of noncompliance shall be mailed to the Agency at the following address:

Illinois Environmental Protection Agency Division of Water Pollution Control Compliance Assurance Section 1021 North Grand East Post Office Box 19276 Springfield, Illinois 62794-9276

- 5. Non-Storm Water Discharges Except for flows from fire fighting activities, sources of non-storm water listed in paragraph III.A.2 of this permit that are combined with storm water discharges associated with industrial activity must be identified in the plan. The plan shall identify and insure the implementation of appropriate pollution prevention measures for the non-storm water component(s) of the discharge.
- E. Additional requirements for storm water discharge from industrial activities other than construction, including dedicated asphalt plants, and dedicated concrete plants. This permit may only authorize a storm water discharge associated with industrial activity from a construction site that is mixed with a storm water discharge from an industrial source other than construction, where:
 - 1. the industrial source other than construction is located on the same site as the construction activity;
 - storm water discharges associated with industrial activity from the areas of the site where construction activities are occurring are in compliance with the terms of this permit; and
 - 3. storm water discharges associated with industrial activity from the areas of the site where industrial activity other than construction are occurring (including storm water discharges from dedicated asphalt plants (other than asphalt emulsion facilities) and dedicated concrete plants) are in compliance with the terms, including applicable NOI or application requirements, of a different NPDES general permit or individual permit authorizing such discharges.

F. Contractors.

- 1. The storm water pollution prevention plan must clearly identify for each measure identified in the plan, the contractor(s) or subcontractor(s) that will implement the measure. All contractors and subcontractors identified in the plan must sign a copy of the certification statement in paragraph 2 below in accordance with Part VI.G (Signatory Requirements) of this permit. All certifications must be included in the storm water pollution prevention plan except for owners that are acting as contractor.
- Certification Statement. All contractors and subcontractors identified in a storm water pollution prevention plan in accordance with paragraph
 1 above shall sign a copy of the following certification statement before conducting any professional service at the site identified in the storm water
 pollution prevention plan:

"I certify under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit (ILR100000) that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification."

The certification must include the name and title of the person providing the signature in accordance with Part VI.G of this permit; the name, address and telephone number of the contracting firm; the address (or other identifying description) of the site; and the date the certification is made.

Part V. RETENTION OF RECORDS

A. The permittee shall retain copies of storm water pollution prevention plans and all reports and notices required by this permit, and records of all data used to complete the Notice of Intent to be covered by this permit, for a period of at least three years from the date that the site is finally stabilized. This period may be extended by request of the Agency at any time.

B. The permittee shall retain a copy of the storm water pollution prevention plan required by this permit at the construction site from the date of project initiation to the date of final stabilization.

Part VI. STANDARD PERMIT CONDITIONS

- A. Duty to Comply.
 - The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of Illinois Environmental Protection
 Act and the CWA and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit
 renewal application.
 - 2. Penalties for Violations of Permit Conditions.
 - a. <u>Criminal</u>
 - (1). Negligent Violations The CWA provides that any person who negligently violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than 1 years, or both. The Environmental Protection Act provides that any person who negligently violates subsection (f) of Section 12 of the Act, any provision of any regulation, standard, or filing requirement under subsection (b) of Section 39 of the Act, or any NPDES permit issued under the Act is subject to a fine not to exceed \$10,000 for each day of violation.
 - (2). Knowing Violations The CWA provides that any person who knowingly violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a fine of not less than \$5,000 nor more than \$50,000 per day of violation, or by imprisonment for not more than 3 year, or both. The Environmental Protection Act provides that any person who knowingly violates subsection (f) of Section 12 of the Act, any provision of any regulation, standard, or filing requirement under subsection (b) of Section 39 of the Act, or any NPDES permit issued under the Act commits a Class 4 felony, and in addition to any other-penalty prescribed by law is subject to a fine not to exceed \$25,000 for each day of violation.
 - (3). <u>Knowing Endangerment</u> The CWA provides that any person who knowingly violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act and who knows at that time that he is placing another person in imminent danger of death or serious bodily injury is subject to a fine of not more than \$250,000, or by imprisonment for not more than 15 years, or both.
 - (4). False Statement The CWA provides that any person who knowingly makes any false material statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained under the Act or who knowingly falsifies, tampers with, or renders inaccurate, any monitoring device or method required to be maintained under the Act, shall upon conviction, be punished by a fine of not more than \$10,000 or by imprisonment for not more than 2 years, or by both. If a conviction of a permitee is for a violation committed after a first conviction of such person under this paragraph, punishment shall be by a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than 4 years, or by both. (See Section 309.c.4 of the Clean Water Act). The Environmental Protection Act provides that any person who knowingly makes any false statement, representation, or certification in an application form, or form pertaining to a NPDES permit or who knowingly-renders inaccurate any monitoring device or record required in connection with any such permit or with any discharge which is subject to the provisions of subsection (f) of Section 12 of the Act commits a Class A misdemeanor, and in addition to any other penalties provided by law is subject to a fine not to exceed \$10,000 for each day of violation.
 - b. <u>Civil Penalties</u> The CWA provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a civil penalty not to exceed \$25,000 per day for each violation. The Environmental Protection Act provides that any person who violates subsection (f) of Section 12 of the Act, any provision of any regulation, standard, or filing requirement under subsection (b) of Section 39 of the Act, or any NPDES permit issued under the Act is subject to a civil penalty not to exceed \$50,000 for each violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues.
 - c. <u>Administrative Penalties</u> The CWA provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to an administrative penalty, as follows:
 - (1). Class I penalty Not to exceed \$10,000 per violation nor shall the maximum amount exceed \$25,000.
 - (2). Class II penalty Not to exceed \$10,000 per day for each day during which the violation continues nor shall the maximum amount exceed \$125,000.
- B. Continuation of the Expired General Permit. This permit expires five years from the date of issuance. An expired general permit continues in force and effect until a new general permit or an individual permit is issued. Only those facilities authorized to discharge under the expiring general permit are covered by the continued permit.
- C. Need to halt or reduce activity not a defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- D. Duty to Mitigate. The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.
- E. Duty to Provide Information. The permittee shall furnish within a reasonable time to the Agency or local agency approving sediment and erosion plans, grading plans, or storm water management plans; or in the case of a storm water discharge associated with industrial activity which discharges through a municipal separate storm sewer system with an NPDES permit, to the municipal operator of the system, any information which is requested to determine compliance with this permit. Upon request, the permittee shall also furnish to the Agency or local agency approving sediment and erosion

plans, grading plans, or storm water management plans; or in the case of a storm water discharge associated with industrial activity which discharges through a municipal separate storm sewer system with an NPDES permit, to the municipal operator of the system, copies of records required to be kept by this permit.

- F. Other Information. When the permittee becomes aware that he or she failed to submit any relevant facts or submitted incorrect information in the Notice of Intent or in any other report to the Agency, he or she shall promptly submit such facts or information.
- G. Signatory Requirements. All Notices of Intent, storm water pollution prevention plans, reports, certifications or information either submitted to the Agency or the operator of a large or medium municipal separate storm sewer system, or that this permit requires be maintained by the permittee, shall be signed.
 - All Notices of Intent shall be signed as follows:
 - a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (1) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or (2) the manager of one or more manufacturing, production or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25,000,000 (in second-quarter 1980 dollars) if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
 - b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
 - c. For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes (1) the chief executive officer of the agency, or (2) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.
 - All reports required by the permit and other information requested by the Agency shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described above and submitted to the Agency.
 - The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of manager, operator, superintendent, or position of equivalent responsibility or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position).
 - c. Changes to authorization. If an authorization under paragraph I.C (Authorization) is no longer accurate because a different individual or position has responsibility for the overall operation of the construction site, a new authorization satisfying the requirements of paragraph I.C must be submitted to the Agency prior to or together with any reports, information, or applications to be signed by an authorized representative.
 - d. Certification. Any person signing documents under this Part shall make the following certification:
 - "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."
- H. Penalties for Falsification of Reports. Section 309(c)(4) of the Clean Water Act provides that any person who knowingly makes any false material statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than 2 years, or by both. Section 44(j)(4) and (5) of the Environmental Protection Act provides that any person who knowingly makes any false statement, representation, or certification in an application form, or form pertaining to a NPDES permit commits a Class A misdemeanor, and in addition to any other penalties provided by law is subject to a fine not to exceed \$10,000 for each day of violation.
- Penalties for Falsification of Monitoring Systems. The CWA provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by fines and imprisonment described in Section 309 of the CWA. The Environmental Protection Act provides that any person who knowingly renders inaccurate any monitoring device or record required in connection with any NPDES permit or with any discharge which is subject to the provisions of subsection (f) of Section 12 of the Act commits a Class A misdemeanor, and in addition to any other penalties provided by law is subject to a fine not to exceed \$10,000 for each day of violation.
- J. Oil and Hazardous Substance Liability. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under section 311 of the CWA.
- K. Property Rights. The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.
- L. Severability. The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.
- M. Transfers. This permit is not transferable to any person except after notice to the Agency. The Agency may require the discharger to apply for and obtain an individual NPDES permit as stated in Part I.C (Authorization).

- N. Requiring an Individual Permit or an Alternative General Permit.
 - 1. The Agency may require any person authorized by this permit to apply for and/or obtain either an individual NPDES permit or an alternative NPDES general permit. Any interested person may petition the Agency to take action under this paragraph. Where the Agency requires a discharger authorized to discharge under this permit to apply for an individual NPDES permit, the Agency shall notify the discharger in writing that a permit application is required. This notification shall include a brief statement of the reasons for this decision, an application form, a statement setting a deadline for the discharger to file the application, and a statement that on the effective date of the individual NPDES permit or the alternative general permit as it applies to the individual permittee, coverage under this general permit shall automatically terminate. Applications shall be submitted to the Agency indicated in Part II.D (Where to Submit) of this permit. The Agency may grant additional time to submit the application upon request of the applicant. If a discharger fails to submit in a timely manner an individual NPDES permit application as required by the Agency under this paragraph, then the applicability of this permit to the individual NPDES permittee is automatically terminated at the end of the day specified by the Agency for application submittal.
 - 2. Any discharger authorized by this permit may request to be excluded from the coverage of this permit by applying for an individual permit. In such cases, the permittee shall submit an individual application in accordance with the requirements of 40 CFR 122.26(c)(1)(ii), with reasons supporting the request, to the Agency at the address indicated in Part II.D (Where to Submit) of this permit. The request may be granted by issuance of any individual permit or an alternative general permit if the reasons cited by the permittee are adequate to support the request.
 - 3. When an individual NPDES permit is issued to a discharger otherwise subject to this permit, or the discharger is authorized to discharge under an alternative NPDES general permit, the applicability of this permit to the individual NPDES permittee is automatically terminated on the effective date of the individual permit or the date of authorization of coverage under the alternative general permit, whichever the case may be. When an individual NPDES permit is denied to a discharger otherwise subject to this permit, or the discharger is denied for coverage under an alternative NPDES general permit, the applicability of this permit to the individual NPDES permittee remains in effect, unless otherwise specified by the Agency.
- O. State/Environmental Laws. No condition of this permit shall release the permittee from any responsibility or requirements under other environmental statutes or regulations.
- P. Proper Operation and Maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit and with the requirements of storm water pollution prevention plans. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. Proper operation and maintenance requires the operation of backup or auxiliary facilities or similar systems, installed by a permittee only when necessary to achieve compliance with the conditions of the permit.
- Q. Inspection and Entry. The permittee shall allow the Agency or, in the case of a construction site which discharges through a municipal separate storm sewer, an authorized representative of the municipal operator or the separate storm sewer receiving the discharge, upon the presentation of credentials and other documents as may be required by law, to:
 - 1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;
 - 2. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit; and
 - 3. Inspect at reasonable times any facilities or equipment (including monitoring and control equipment).
- R. Permit Actions. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Part VII. REOPENER CLAUSE

- A. If there is evidence indicating potential or realized impacts on water quality due to any storm water discharge associated with industrial activity covered by this permit, the discharger may be required to obtain individual permit or an alternative general permit in accordance with Part I.C (Authorization) of this permit or the permit may be modified to include different limitations and/or requirements.
- B. Permit modification or revocation will be conducted according to provisions of 35 Ill. Adm. Code, Subtitle C, Chapter I and the provisions of 40 CFR 122.62, 122.63, 122.64 and 124.5.

Part VIII. DEFINITIONS

"Agency" means the Illinois Environmental Protection Agency.

"Best Management Practices" ("BMPs") means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the United States. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

"Commencement of Construction" - The initial disturbance of soils associated with clearing, grading, or excavating activities or other construction activities

"CWA" means Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972) Pub.L. 92-500, as amended Pub. L. 95-217, Pub. L. 95-576, Pub. L. (96-483 and Pub. L. 97-117, 33 U.S.C. 1251 et.seq.)

"Dedicated portable asphalt plant" - A portable asphalt plant that is located on or contiguous to a construction site and that provides asphalt only to the construction site that the plant is located on or adjacent to. The term dedicated portable asphalt plant does not include facilities that are subject

to the asphalt emulsion effluent limitation guideline at 40 CFR 443.

"<u>Dedicated portable concrete plant</u>" - A portable concrete plant that is located on or contiguous to a construction site and that provides concrete only to the construction site that the plant is located on or adjacent to.

"Dedicated sand or gravel operation" - An operation that produces sand and/or gravel for a single construction project.

"Director" means the Director of the Illinois Environmental Protection Agency or an authorized representative.

"<u>Final Stabilization</u>" means that all soil disturbing activities at the site have been completed, and that a uniform perennial vegetative cover with a density of 70% the cover for unpaved areas and areas not covered by permanent structures has been established or equivalent stabilization measures (such as the use of riprap, gabions or geotextiles) have been employed.

"Large and Medium municipal separate storm sewer system" means all municipal separate storm sewers that are either:

- (i) located in an incorporated place (city) with a population of 100,000 or more as determined by the latest Decennial Census by the Bureau of Census (these cities are listed in Appendices F and G of 40 CFR Part 122); or
- (ii) located in the counties with unincorporated urbanized populations of 100,000 or more, except municipal separate storm sewers that are located in the incorporated places, townships or towns within such counties (these counties are listed in Appendices H and I of 40 CFR Part 122); or
- (iii) owned or operated by a municipality other than those described in paragraph (i) or (ii) and that are designated by the Director as part of the large or medium municipal separate storm sewer system.

"NOI" means notice of intent to be covered by this permit (see Part II of this permit.)

"Point Source" means any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharges. This term does not include return flows from irrigated agriculture or agricultural storm water runoff.

"Runoff coefficient" means the fraction of total rainfall that will appear at the conveyance as runoff.

"Storm Water" means storm water runoff, snow melt runoff, and surface runoff and drainage.

"Storm Water Associated with Industrial Activity" means the discharge from any conveyance which is used for collecting and conveying storm water and which is directly related to manufacturing, processing or raw materials storage areas at an industrial plant. The term does not include discharges from facilities or activities excluded from the NPDES program. For the categories of industries identified in subparagraphs (i) through (x) of this subsection, the term includes, but is not limited to, storm water discharges from industrial plant yards; immediate access roads and rail lines used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility; material handling sites; refuse sites; sites used for the application or disposal of process waste waters (as defined at 40 CFR 401); sites used for the storage and maintenance of material handling equipment; sites used for residual treatment, storage, or disposal; shipping and receiving areas; manufacturing buildings; storage areas (including tank farms) for raw materials, and intermediate and finished products; and areas where industrial activity has taken place in the past and significant materials remain and are exposed to storm water. For the categories of industries identified in subparagraph (xi), the term includes only storm water discharges from all areas listed in the previous sentence (except access roads) where material handling equipment or activities, raw materials, intermediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water. For the purposes of this paragraph, material handling activities include the: storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, finished product, by-product or waste product. The term excludes areas located on plant lands separate from the plant's industrial activities, such as office buildings and accompanying parking lots as long as the drainage from the excluded areas is not mixed with storm water drained from the above described areas. Industrial facilities (including industrial facilities that are Federally or municipally owned or operated that meet the description of the facilities listed in this paragraph (i)- (xi)) include those facilities designated under 40 CFR 122.26(a)(1)(v). The following categories of facilities are considered to be engaging in "industrial activity" for purposes of this subsection:

- (i) Facilities subject to storm water effluent limitations guidelines, new source performance standards, or toxic pollutant effluent standards under 40 CFR Subchapter N (except facilities with toxic pollutant effluent standards which are exempted under category (xi) of this paragraph);
- (ii) Facilities classified as Standard Industrial Classifications 24 (except 2434), 26 (except 265 and 267), 28, 29, 311, 32, 33, 3441, 373;
- (iii) Facilities classified as Standard Industrial Classifications 10 through 14 (mineral industry) including active or inactive mining operations (except for areas of coal mining operations meeting the definition of a reclamation area under 40 CFR 434.11(I)) and oil and gas exploration, production, processing, or treatment operations, or transmission facilities that discharge storm water contaminated by contact with or that has come into contact with, any overburden, raw material, intermediate products, finished products, byproducts or waste products located on the site of such operations; inactive mining operations are mining sites that are not being actively mined, but which have an identifiable owner/operator;
- (iv) Hazardous waste treatment, storage, or disposal facilities, including those that are operating under interim status or a permit under Subtitle C of RCRA:
- (v) Landfills, land application sites, and open dumps that have received any industrial wastes (waste that is received from any of the facilities described under this subsection) including those that are subject to regulation under Subtitle D of RCRA;
- Facilities involved in the recycling of materials, including metal scrapyards, battery reclaimers, salvage yards, and automobile junkyards, including but limited to those classified as Standard Industrial Classification 5015 and 5093;
- (vii) Steam electric power generating facilities, including coal handling sites;

- (viii) Transportation facilities classified as Standard Industrial Classifications 40, 41, 42, 44, and 45 which have vehicle maintenance shops, equipment cleaning operations, or airport deicing operations. Only those portions of the facility that are either involved in vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling, and lubrication), equipment cleaning operations, airport deicing operations, or which are otherwise identified under subparagraphs (i)-(vii) or (ix)-(xi) of this subsection are associated with industrial activity;
- (ix) Treatment works treating domestic sewage or any other sewage sludge or wastewater treatment device or system, used in the storage treatment, recycling, and reclamation of municipal or domestic sewage, including land dedicated to the disposal of sewage sludge that are located within the confines of the facility, with a design flow of 1.0 mgd or more, or required to have an approved pretreatment program under 40 CFR 403. Not included are farm lands, domestic gardens or lands used for sludge management where sludge is beneficially reused and which are not physically located in the confines of the facility, or areas that are in compliance with 40 CFR 503;
- (x) Construction activity including clearing, grading and excavation activities except: operations that result in the disturbance of less than five acres of total land area which are not part of a larger common plan of development or sale;
- (xi) Facilities under Standard Industrial Classifications 20, 21, 22, 23, 2434, 25, 265, 267, 27, 283, 31 (except 311), 34 (except 3441), 35, 36, 37 (except 373), 38, 39, 4221-25, (and which are not otherwise included within categories (i)-(x)).

"Waters" mean all accumulations of water, surface and underground, natural, and artificial, public and private, or parts thereof, which are wholly or partially within, flow through, or border upon the State of Illinois, except that sewers and treatment works are not included except as specially mentioned; provided, that nothing herein contained shall authorize the use of natural or otherwise protected waters as sewers or treatment works except that in-stream aeration under Agency permit is allowable.

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

NOTICE OF INTENT (NOI) GENERAL PERMIT TO DISCHARGE STORM WATER ASSOCIATED WITH INDUSTRIAL ACTIVITY

(EXCLUDING CONSTRUCTION ACTIVITY)

IMPORTANT: FORM MUST BE TYPED TO ENABLE AUTOMATED OPTICAL PROCESSING.

—	PLEASE CHECK TYPEWRITER ALIGNMENT	· LEFT AND RK	ит ———	-
OWNER/OPERATOR IN	FORMATION			
Norwood Marking	Systems		PE: (SELECT ONE A	NO TYPE 32)
MAJUNG 2538 Wisconsin			VATE C	DUNTY STATE
ADDRESS: 2550 WISCONSTIL	Avenue	<u> </u>	r se	ECIAL DISTRICT
Downers Grove	87: IL 239: 60515	L FED	ERAL	
CONTACT PERSON: Mr. Larry Col	1:00	TELEPHONE NUMBER	AREA COOR	нимеея 968-0646
PERSONE Mr. Larry Col	11/15	Nomera	708	900-0040
FACILITY/SITE INFORM	MATION	,		······································
AND TYPE TO X EXISTING	HEW CHANGE OF INFORMATIO	N GENERA NPOES PERMIT	- 111L!RI	0 0
MANE: Norwood Marking	Systems	OTHER MPDE PERMIT NUM (IF APPLICAL	BERGL	-
MAILING 2538 Wisconsin	Avenue	TELEPHONE NUMBER	708	968-0646
	11	LATITUDE: C		LONGITUDE: DEG. NEW. SEC.
Downers Grove	st: L 225 60515	18 6800 HORD 4	1 47 22	16 SECONOS 88 02 49
COUNTY: DuPage	SECTION: 12	TOWNSHEP	38 North	RANGE: 10 East
SIC OR PRIMAR	Y 2ND		סאנ	4TH
ACTIMITY CODE(1): 3565		<u> </u>		
RECEIVING WATER INF	FORMATION THARGE DIRECTLY TO: (SELECT ON	E AND TYP	E 201	
! ~~	STORM SEWER STO	NER OF ORM SEWER		
NAME OF CLOSEST RECEIVING WATER		•		·
	Joseph Creek RENTLY EXIST WHICH DESCRIBES T	HE CONCE	NTRATION OF	POLLUTANTS IN
THE STORM WATER DISCHARGE		МО		
with a system designed to assure that of of the person of persons who manage it submitted is, to the best of my knowled; submitting false information, including submitting that the designed and implementation.		aluate the infonsible for great a mawan in addition, in the infonsible form of the infonsible form in the infonsible form in the infonsible form in the infonsible form in the infonsible form in the infonsible form in the infonsible form in the infonsible form in the infonsible form in the infonsible form in the infonsible for great and infonsib	omation submitte sthering the inform a that there are sig localify that the po is a Monitoring Pro arged from this ta	id. Seed on my inquiry nation, the information gnificant penalties for ovisions of the permit, cram Plan, will be
MAIL COMPLETED FORM TO: (DO NOT SUBMIT ADMITIONAL DOCUMENTATION UNLESS REQUESTED)	ILLINOIS ENVIRONMENTAL PROTECTIO DIVISION OF WATER POLLUTION CONTI AYTN: PERMIT SECTION 2200 CHURCHILL ROAD POST OFFICE BOX 19276 SPRINGFIELD, IL 62794-9276		LOG PERMIT DATE	ILROO



Please print or type in the unshaded areas only

2F

NPDES

I. Outfall Location

United States Environmental Protection Agency Washington, DC 20460

Application for Permit To Discharge Stormwater Discharges Associated with Industrial Activity

Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions. searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency. 401 M St., SW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. Outfall Number						D. Receiving	Water	
(list)	B. Latitud	е	c	. Longitu	de	(name)		
	41 47	22	88	02	49	St. Joseph Creek		
02:Northeast corner	41 47	22_	88	02	49	St. Joseph Creek		
	_	 						·
		 			 	-		
					<u> </u>			 .
						elementation schedule for the cons		
operation of wastewater tre	atment equi ? This includ	pment or les. but is	practices not limite	or any of	other envi mit condit	ironmental programs which may ions, administrative or enforcemer	affect the dis	charges
							4.	Final
1. Identification of Conditions,		2. Affecte	d Outfalls				Compli	ance Date
Agreements, Etc.	number	sour	ce of disch	arge]	3. Brief Description of Project	a. req.	b. proj.
	-							
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You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfall(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage or disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which receive storm water discharges from the facility.

	d from the Front	tutant Courses Nicos Se	era erila julik di	Splitter was the splitter of the splitter of	no el laborationes	kalangan malija di Sakalana (Sakalana)
A. Fo	Tative Description of Polin reach outfall, provide an estimate of the outfall, and an estimate of the	ate of the area (include units) o	impervio	us surfaces (including paved are		
Outfall Number	Area of Impervious Surface	Total Area Drained	Outfall Number	Area of Impervious Surface		Area Drained
01	30,870 square feet	31,770 square feet				
02	<u> </u>	31,770 square feet	L			
a s en	manner to allow exposure to sto aployed, in the last three years,	orm water; method of treatment, to minimize contact by these m	storage, d ateriais wit	n the past three years have been or disposal; past and present ma th storm water runoff; materials l ditioners, and fertilizers are appli	sterials mana- loading and a	gement practices
•	A dust collection ba interior graphite en of the building.	aghouse used to col ngraving and grindi	lect pa ng prod	articulate emissions cesses is located al	generat	ed by north side
2. 1	ifty-five gallon dı	rums containing a v	ariety	of scrap metal e northeast corner o	f the hi	uildina
				area was disassembl		
3. 9	drums are no longer Standard lawn chemid Service company.			ing. caped areas by a loc	al lawn	care
sto	r each outfall, provide the locat rm water runoff; and a descripti d treatment measures and the u	on of the treatment the storm w	ater receiv	al and nonstructural control mea es, including the schedule and ty s other than by discharge.	sures to redu pe of mainter	ice pollutants in nance for control
Outfall			A14 119 X1X			List Codes from
Number		Treatmen	t			Table 2F-1
01	None			_		4-A
02	None			•		4-A
A. I c	nstormwater discharges, and the Form 2E application for the outfa	nat the outfall(s) covered by at all nonstormwater discharges	this application thes	ation have been tested or eve e outfall(s) are identified in either	er an accomp	anying Form 2C
	Official Title (type or print) PLAW - SUP		kly	Hollins	Date Sign	28/52
	· · · · · · · · · · · · · · · · · · ·		1/	eyances are abovegro		d during a test.
conve	yances were evaluat	ted by visual inspec	ction.			
			No.			
Provide years, i	existing information regarding notuding the approximate date a	the history of significant leaks and location of the spill or leak, a	or spills o	f toxic or hazardous pollutants a e and amount of material release	it the facility	in the last three
No kr	nowledge of any sign	nificant leaks or sp	oills o	luring past three ye	ars.	

Continued from Page 2

VII. Discharge Information A,B,C, & D: See instructions before proceeding	. Complete one set of tables for each ou	utfall. Annotate the outfall r	number in the space provided.
	luded on separate sheets numbered VII-		
E: Potential discharges not covered by analys currently use or manufacture as an intermed	sis - Is any pollutant listed in Table 2F-diate or final product or byproduct?	2 a substance or a comp	onent of a substance which you
χ Yes (list all such pollutants below)			No (go to Section IX)
1. Aluminum			
2. Iron			
3. Various lubricating oil	ls. (specific chemical co	onstituents vary	•
VIII, Biological Toxicity Testing Data			or Made and the Special
Do you have any knowledge or reason to believ on a receiving water in relation to your discharge	e that any biological test for acute or che within the last 3 years?	ronic toxicity has been ma	de on any of your discharges or
Yes (list all such pollutants below)	·····		No (go to Section IX)
-			
	•		
N/ 0	entre verstigen ern plasser i de en 1888 en 1880 en	Service of the service services	anto appendica e e e e e e e e e e e e e e e e e e e
IX. Contract Analysis Information Were any of the analyses reported in item I performance.		ice of the section is	ej e mer en de i plej generalis.
Were any of the analyses reported in item performance. V Yes (list the name, address, and tell	ormed by a contract laboratory or consu		No (go to Section X)
Were any of the analyses reported in Item Property	ormed by a contract laboratory or consu		
Were any of the analyses reported in item performance in the manual pe	ormed by a contract laboratory or consu ephone number of, and pollutants or firm below)	lting firm?	
Were any of the analyses reported in Item Tenton Yes (list the name, address, and tell analyzed by, each such laboratory	ephone number of, and pollutants or firm below) 8. Address 945 Oaklawn Avenue Elmhurst, Illinois	C. Area Code & Phone	No. D. Pollutants Analyzed
Were any of the analyses reported in Item performance of the analyses reported in Item performance of the analyzed by, each such laboratory. A. Name Mostardi-Platt Associates,	ephone number of, and pollutants or firm below) B. Address 945 Oaklawn Avenue	C. Area Code & Phone	No. D. Pollutants Analyzed
Were any of the analyses reported in Item performance of the analyses reported in Item performance of the analyzed by, each such laboratory. A. Name Mostardi-Platt Associates,	ephone number of, and pollutants or firm below) 8. Address 945 Oaklawn Avenue Elmhurst, Illinois	C. Area Code & Phone	No. D. Pollutants Analyzed
Were any of the analyses reported in Item performance of the analyses reported in Item performance of the analyzed by, each such laboratory. A. Name Mostardi-Platt Associates,	ephone number of, and pollutants or firm below) 8. Address 945 Oaklawn Avenue Elmhurst, Illinois	C. Area Code & Phone	No. D. Pollutants Analyzed
Were any of the analyses reported in Item performance of the analyses reported in Item performance of the analyzed by, each such laboratory. A. Name Mostardi-Platt Associates,	ephone number of, and pollutants or firm below) 8. Address 945 Oaklawn Avenue Elmhurst, Illinois	C. Area Code & Phone	No. D. Pollutants Analyzed
Were any of the analyses reported in item Tender with the name, address, and telegraphy each such laboratory. A. Name Mostardi-Platt Associates, Inc.	ephone number of, and pollutants of firm below) B. Address 945 Oaklawn Avenue Elmhurst, Illinois 60126	C. Area Code & Phone (708) 993-9000	No. D. Pollutants Analyzed
Were any of the analyses reported in item Tender of the analyses reported in item Tender of the analysed by, each such laboratory. A. Name Mostardi-Platt Associates, Inc. X. Certification	ephone number of, and pollutants or firm below) B. Address 945 Oaklawn Avenue Elmhurst, Illinois 60126	C. Area Code & Phone (708) 993–9000	No. D. Pollutants Analyzed
Were any of the analyses reported in item Tender Yes (list the name, address, and telegraphs)	ephone number of, and pollutants or firm below) B. Address 945 Oaklawn Avenue Elmhurst, Illinois 60126 this document and all attachmatem designed to assure that qui	C. Area Code & Phone (708) 993-9000 ments were prepared alified personnel pro	No. D. Pollutants Analyzed All d under my direction or perly gather and evaluate
Were any of the analyses reported in item Tender [X] Yes (list the name, address, and telegraphy each such laboratory A. Name Mostardi-Platt Associates, Inc. X. Certification I certify under penalty of law that supervision in accordance with a system information submitted. Based on directly responsible for gathering the	this document and all attachnotem designed to assure that quinty of the person or person or person or the information, the information, the information supports of contract of the person or person	C. Area Code & Phone (708) 993-9000 ments were prepared alified personnel propons who manage the about the beautiful to the	D. Pollutants Analyzed All d under my direction or perly gather and evaluate system or those persons est of my knowledge and
Were any of the analyses reported in item Tender [X] Yes (list the name, address, and telegraphy each such laboratory A. Name Mostardi-Platt Associates, Inc. X. Certification I certify under penalty of law that supervision in accordance with a system information submitted. Based on	this document and all attachmeter designed to assure that qui my inquiry of the person or person of am aware that there are significant there are significant to comment and all attachmeter designed to assure that qui my inquiry of the person or person or person am aware that there are significant to contact the comment of the person or person or person are significant to contact the contact that there are significant to contact the contact that there are significant to contact the contact that there are significant that there are significant to contact the contact that there are significant that there are significant to contact the contact that there are significant to contact the contact that the contact the contact that the c	C. Area Code & Phone (708) 993-9000 ments were prepared alified personnel promons who manage the ubmitted is, to the becant penalties for sur	D. Pollutants Analyzed All d under my direction or perly gather and evaluate system or those persons est of my knowledge and
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Part A - You n	nust provide the rections for additional	sults of at least on			able. Com	plete one table for each outfall. See
	Maximu	m Values	Averag	e Values	Number	
Pollutant	(includ	e units)	(includ	de units)	of	
and	Grab Sample		Grab Sample		Storm	
CAS Number	Taken During	Flow-weighted	Taken During	Flow-weighted	Events	1
(if available)	First 30 Minutes	Composite	First 30 Minutes	Composite	Sampled	Sources of Pollutants
Oil and Grease	∠ 2 ppm				1	Sources of Foliations
Biological Oxygen Demand (BOD5)	∠ 10 ppm				1	
Chemical Oxygen	FF		 	 	 	
Demand (COD)	10 ppm				1	
	то ррш				 1	
otal Suspended	62 ppm				1	
Solids (TSS)	oz ppiii		}	 	1	
otal Kjeldahl	0.7 ppm					
litrogen	0.7 ppiii				11_	
litrate plus	0.2 ppm				1	
litrite Nitrogen	VIZ PPIII	<u></u>				
otal hosphorus	0.21 ppm			•	1	•
		Мажівпуцяту	Minimum	Maximum	l	
	Ch pollutant that is I	limited in an effluer			o or any o	ollutant listed in the facility's NPDES
permit	for its process was e instructions for add	tewater (if the facili	ty is operating unde	er an existing NPDE	S permit).	Complete one table for each outfall.
	Maximun			values	Number	
Pollutant	(include	units)	(includ	e units)	of	
and	Grab Sample		Grab Sample		Storm	
CAS Number	Taken During	Flow-weighted	Taken During	Flow-weighted	Events	
(if available)	First 30 Minutes	Composite	First 30 Minutes	Composite	Sampled	Sources of Pollutants
None						
110110						
				, , , , , , , , , , , , , , , , , , , ,		·
						
						
						
			-			
						
				······································		
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Continu	ed from the	e Fre	ont Outfa	11 ()1							
Part	C - List e addit	ach p		in Tab	les 2F-2, 2F-	3, and 2F-4 that e one table for e	you ach	know or have rea outfall.	son to belie	ve is p	present. See the	instructions for
Maximum Values			Av	gane	e Values	Number	1		···			
Po	ilutant		(includ	e units)	(ir	(include units)			1		
CAS	and Number		Grab Sample Taken During First 30		w-weighted	Grab Samp Taken Durir First 30	ıg	Flow-weighted	Storm Events			
}	ailable)	-	Minutes	C	omposite .	Minutes		Composite	Sampled		, Sources of	Pollutants
<u>0i1</u>		-	-(0			<u> </u>						
<u>gr</u>	ease	┼	∠2 ppm			· · · · · · · · · · · · · · · · · · ·				 		
Tota	1	 				 		 	- 			
	osphore	DUS	0.21 ppm		· · · · · · · · · · · · · · · · · · ·					 		
	o prior s	1	OLLI PPIII									
Nitr	ate +				· · · · · · · · · · · · · · · · · · ·							
Ni	trite		0.2 ppm									
Tota		1						<u> </u>				
	edahl_	 							_			
Ni.	trogen	 	0.7 ppm						-		 	 _
		 										
		i	- 1									
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		 	1									
		-									······································	~
		 						- ,				
		1										
		1										
Part () - Provid	le dat	a for the storm of	event(s) which resul	ted in the maxin	ոստ	values for the flow	weighted c	ompo	site sample.	, .
1.	2.		3.			4.		5.	6.		7.	8.
Date of Storm Event	Durati of Stor (in minu	rm	Total rainfa during storm (in inches	event	beginning of ured and e	hours between of storm meas- nd of previous ble rain event	d	aximum floe rate uring rain event allons/minute or specify units	Total flow rain ever (gallons specify un	nt <i>or</i>	Season sample was taken	Form of Precipitation (rainfall, snowmelt)
09/14/	92 5	5	0.70		Approxim 108 hour			4 gallons/ minute	12,320 gallons		Summer	Rainfall
						:						

9. Provide a description of the method of flow measurement or estimate.

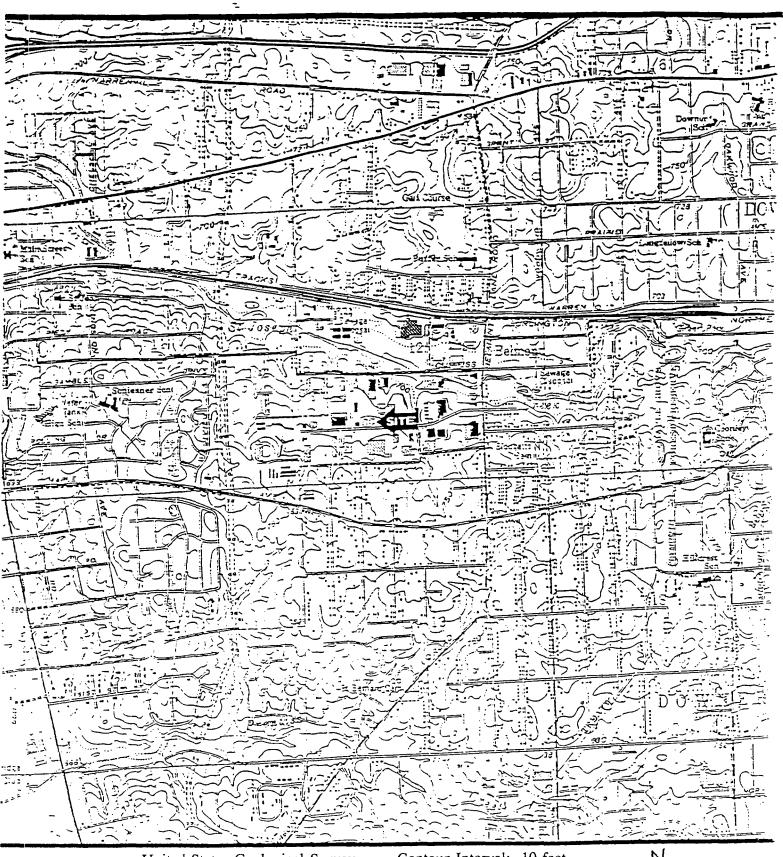
Rational Method used to estimate flow rate based on calculated areas of pervious and impervious surfaces and rain gauge measurements.

VII. Discharge	Information (Co	ontinued from pa	ige 3 of Form 2F)					
Part A - You n	Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.								
	Maximu	m Values	Averag	e Values	Number				
Pollutant	(includ	le units)	(înclud	de units)	of				
. and	Grab Sample		Grab Sample		Storm				
CAS Number	AS Number Taken During Flow-weighted		Taken During First 30	Flow-weighted	Events	·			
(if available)	Minutes	Composite	Minutes	Composite	Sampled	Sources of Pollutants			
					1				
Oil and Grease	∠2 ppm				-				
Biological Oxygen	5 ppm								
Demand (BOD5)	5 ppm			 	ļ				
Chemical Oxygen	∠10 ppm				į				
Demand (COD)	- 10 bbiii		 		 				
Total Suspended	13 ppm	<u> </u>							
Solids (TSS)	13 ppm			<u> </u>					
Total Kjeldahl	0.56 ppm		1						
Nitrogen	0.56 ppm		-						
Nitrate plus	0.4 ppm								
Nitrite Nitrogen	0.4 ppm								
Total	0.2 ppm				-				
Phosphorus			<u> </u>	<u> </u>					
pH Part B - List ea	Minimum 6.3	Maximum	Minimum	Maximum		ollutant listed in the facility's NPDES			
permit	tor its process was	itewater (if the facilit	ty is operating unde	er an existing NPDE	to or any p S permit).	Complete one table for each outfall.			
See the	e instructions for ad	ditional details and r	equirements.		, ,				
		m Values	_	a Values	Number of				
Pollutant	(include	e units)		(include units)					
and	Grab Sample Taken During		Grab Sample Taken During		Storm				
CAS Number	First 30	Flow-weighted	First 30	Flow-weighted	Events				
(if available)	1 4°	0							
	Minutes	Composite	Minutes	Composite	Sampled	Sources of Pollutants			
None	Minutes	Composite	Minutes	Composite	Sampled	Sources of Pollutants			
	Minutes	Composite	Minutes	Composite	Sampled	Sources of Pollutants			
	Minutes	Composite	Minutes	Composite	Sampled	Sources of Pollutants			
	Minutes	Composite	Minutes	Composite	Sampled	Sources of Pollutants			
	Minutes	Composite	Minutes	Composite	Sampled	Sources of Pollutants			
	Minutes	Composite	Minutes	Composite	Sampled	Sources of Pollutants			
	Minutes	Composite	Minutes	Composite	Sampled	Sources of Pollutants			
	Minutes	Composite	Minutes	Composite	Sampled	Sources of Pollutants			
	MINUTES	Composite	Minutes	Composite	Sampled	Sources of Pollutants			
	MINUTES	Composite	Minutes	Composite	Sampled	Sources of Pollutants			
	Minutes	Composite	Minutes	Composite	Sampled	Sources of Pollutants			
	MINUTES	Composite	Minutes	Composite	Sampled	Sources of Poll-Hants			
	MINUTES	Composite	Minutes	Composite	Sampled	Sources of Pollutants			
	MINUTES	Composite	Minutes	Composite	Sampled	Sources of Pollutants			
	MINUTES	Composite	Minutes	Composite	Sampled	Sources of Pollutants			
	MINUTES	Composite	Minutes	Composite	Sampled	Sources of Pollutants			
	Minutes	Composite	Minutes	Composite	Sampled	Sources of Poll-Hants			
	MINUTES	Composite	Minutes	Composite	Sampled	Sources of Poll-Hants			
	MINUTES	Composite	Minutes	Composite	Sampled	Sources of Pollutants			
	MINUTES	Composite	Minutes	Composite	Sampled	Sources of Pollutants			
	MINUTES	Composite	Minutes	Composite	Sampled	Sources of Pollutants			
	MINUTES	Composite	Minutes	Composite	Sampled	Sources of Poll-Hants			
	MINUTES	Composite	Minutes	Composite	Sampled	Sources of Poll-Hants			
	Minutes	Composite	Minutes	Composite	Sampled	Sources of Poll-Hants			
	MINUTES	Composite	Minutes	Composite	Sampled	Sources of Poll-Hants			
	MINUTES	Composite	Minutes	Composite	Sampled	Sources of Poll-Hants			
	Minutes	Composite	Minutes	Composite	Sampled	Sources of Pollutants			

Continued from the Front Outfall 02 List each pollutant shown in Tables 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall. Maximum Values Average Values Number **Pollutant** (include units) (include units) af Grab Sample and Grab Sample Storm Taken During Taken During CAS Number Flow-weighted Flow-weighted Events First 30 First 30 (if available) Minutes Composite Minutes Composite Sampled Sources of Pollutants Oil and ∠2 ppm• grease Total phosphorous 0.2 ppm Nitrate + Nitrite 0.4 ppm Total **Kieldahl** Nitrogen 0.56 ppm Part D -Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample. Total flow from Season Form of Date of Duration Total rainfall Number of hours between Maximum floe rate Precipitation beginning of storm measduring rain event rain event sample was Storm of Storm during storm event (gallons/minute or ured and end of previous (gallons or (rainfall, snowmelt) Event (in minutes) (in inches) specify units specify units) taken measurable rain event 09/14/92 0.70 225 gallons/ 12,375 Summer Rainfall 55 Approximately 108 hours qallons minute Provide a description of the method of flow measurement or estimate.

Rational Method used to estimate flow rate based on calculated areas of previous and impervious surfaces and rain gauge measurements.

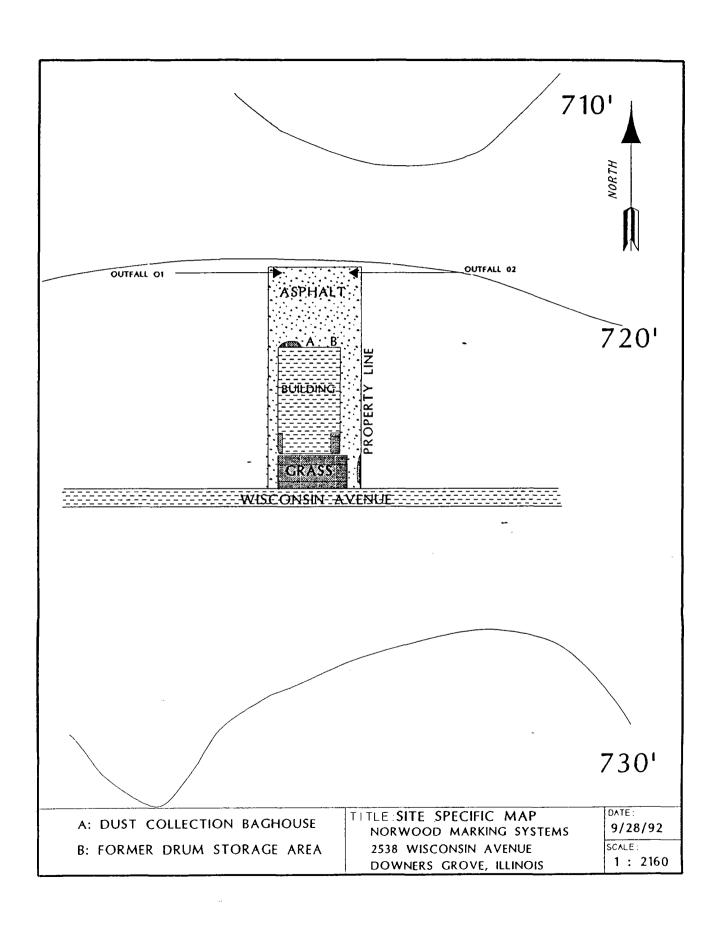
NORWOOD MARKING SYSTEMS 2538 WISCONSIN AVENUE DOWNERS GROVE, ILLINOIS



United States Geological Survey Topographic Map Wheaton Quadrangle Illinois - DuPage County Contour Interval: 10 feet

Map Date: 1962

Photo Revised: 1972 and 1980



Waste Analyses

Mostardi-Platt Associates, Inc. 945 Oaklawn Ave.

32508 Client Project ID: Sample Descript:

TCLP Extract

Sampled: Jun 22, 1993

Received: Analyzed:

Jun 23, 1993 Jun 28-30, 1993

Elmhurst, IL 60126 Attention: Cheryl Smith

Lab Number:

308-1000

Reported: Jun 30, 1993

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP): METALS

Analyte	Detection Limit mg/L (ppm)		Sample Results mg/L (ppm)
Arsenic	0.50	######################################	N.D.
Barium	10	*****************************	N.D.
Cadmium	0.10	***************************	N.D.
Chromium	0.50	1010000101010101010101010101010101010101	N.D.
Lead	0.50	**********************	N.D.
Mercury	0.02		N.D.
Selenium	0.10		N.D.
Silver	0.50	***************************************	N.D.

sludge from setfling tank

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kavin W. Keeley Laboratory Director

			TT ASSOCIATES, INC. NALYSIS REQUEST	
Part I: FIELD		IVIPLING A		Charles (Action 1994)
Collector: DI			Date Sampled: 6/27 6/22	Time: hours
	MOS 945 Oa	klawn Avenu Telephone Fax	TT ASSOCIATES, INC. e, Elmhurst, Illinois 60126 : (708) 993-9000 : (708) 993-9017	
	tact: Cheryl Smith	1		
Laboratory Sample Number	Collector's Sample Number	Type of Sample*	Field Information)n**
3061000	32508 - 601	Sludge	6 Studge from Metal tomble	
			. !	
		-		
Analysis Reques	ted: TILP Me	111C 706	shpoint Cocrosivity (pH)	+ Reactivity
(with 4	cid Base W	ati Pa	ant Edter	The section of the se
1901111	cia, pase, w	41111	MA FILLIA	
Special Handling	and/or Storage:			
	ORATORY SECT	TION**	r	
Received by:			Title:	Date:
Analysis Require	xd:			
	hether sample is so of page for addition		n relative to sample location.	



1380 Busch Parkway · Buffalo Grove, Illinois 60089

(708) 808-7766 FAX (708) 808-7772

				200	macie	2012020185311A
Mostardi-Platt Associates, Inc.	Client Project ID:	32809	Sampled:	Jü	12,	1993
3945 Oaklawn Ave.	Sample Descript:	Water	Received:	Jul	13,	1993 🖁
Elmhurst, IL 60126	Analysis for:	Flash Point, Closed Cup(F)				**
Attention: Cheryl Smith	First Sample #:	307-0407	Analyzed:	Jul	19,	1993
*	·		Reported:	Jul	20,	1993 🖔
			***************************************	2323	****	(COMPANY)

Flash Point, Closed Cup(F)

Sample Number	Sample Description	Sample Result		·		
307-0407	32809-001	>200	studge	from	settling	tapk
307-0408	32809-002	95				

(ento-sets)

("Accordian" clansy solvent

Norwood
Rich - I need to
full to you about

these results & Sarphy.

Thaks STF

GREAT LAKES MALYTICAL

Keeffi W. Keefey Laboratory Director

3070407.MOS <1>



CHAIN OF CUSTODY REPORT

1380 BUSCH PARKWAY BUFFALO GROVE, ILLINOIS 60089-4505 (708) 808-7766 FAX (708) 808-7772

vient: Mostardi - Platt		Project: 32809		TAT: (5 DAY) 4 DAY 3 DAY 2 DAY 1 DAY < 24 HI			
ddress: 945 Oaklawn		Sampler:			DATE RESULTS NEEDED: 7/20/93		
Elmhurst, IL		PO #:			TEMPERATURE UPON RECEIPT: ON TCE		
eport to: Cheryl Smith		Phone #:	FAX #:	AIR BILL NO.		(
FIELD ID, LOCATION		SAMPLE SA	ANAL	YSIS TYPE	SAMPLE CONTROL	LABORATORY	
32809-001	7/12/23	lig, — 1	Can Closed Cup	Flash Pt.	30	70407	
32809-002		<u>U</u> - 1	1			70408	
	_						
	-						
LIMOUISHED 11AYE 7.13.93	RECEIVED	7/13/93DAJE	RELINQUISHED	DAIT- RECEIVED		DATE	
LINGUISHED DATE	RECEIVED AND	14.90 lieste	RELINQUISHED	TAME DATE RECEIVED) <u>-</u>	DATE (
73.46		7)MF		TH 4E-		Thus	
NUMENTS:							
	·				PAGE (OF.	

Waste Solvent Handler Information

Solvent Waste Handler Information

Waste Handlers for Used Mineral Spirits

Langrebe Motor Transit (1980 to 1990)	USEPA ID # IND009842824 Valparaiso, IN	219-462-4181
Mr. Frank, Inc. (1990 to 1993)	USEPA ID # ILD984775049 Matteson, IL	708-481-5221
Hazchem Environmental (1993 to present)	USEPA ID # ILD984785238 Addison, IL USEPA ID # ILR000001388 (formerly) Lombard, IL	630-458-1910

Volume of Used Mineral Spirits Generated

' + 1000	1 50 11
prior to 1980	approximately 50 gallons per year
prior to 1700	approximatory 30 gamons per year

1980 to 1999 approximately 50-100 gallons per year

1999 to present no longer generate used mineral spirits

- NOTES: 1. The approximate time period for which the waste handler provided removal services is indicated in parentheses under the waste handler name.
 - 2. The last known phone number for the waste handler is provided.
 - 3. Prior to 1993, used mineral spirits and used oils were placed into the same containers for disposal. Therefore, volumes on pre-1993 waste manifests in Exhibit I are in excess of those indicated above for used mineral spirits during that time period.

POTW Correspondence

DOWNERS GROVE SANITARY DISTRICT PROHIBITED MATERIALS DISCHARGE REPORT July 1 through December 31, 1998



Company: NORWOOD MARKING SYSTEMS Location: 2538 Wisconsin Downers Grove, IL 60515 This Report was completed by: Dennis J Bourk Title: Safely Director Phone: 67 968 0646 est 7034 Describe the occurrence of any discharges of materials prohibited from discharge to the sanitary sewer system. Include the date, time and type of materials discharged; the amount; who was notified at the time; how the spill was contained and cleaned up; and the method of disposal for the spilled materials. Please reference any reports filed with the District. (Please attach additional sheets) If no discharges occurred during the reporting period, please indicate that by checking the certification statement below: Based on my inquiry of the person or persons directly responsible for managing compliance with the accidental discharge reporting requirements. I certify that to the best of my knowledge and belief, no prohibited materials have been dumped or spilled into the wastewaters since filing the last Prohibited Materials Discharge Report. I further certify that this facility is implementing the Spill Containment and Control Plan submitted to the District. The report must be signed by an authorized agent of the company named above: Authorized Agent: <u>Nennis J Boark</u> Title: <u>Safety Director</u>
(Please type or print name)

Signature: <u>Mannia J Boark</u> Date: <u>Ci/C7/99</u>

DOWNERS GROVE SANITARY DISTRICT Prohibited Materials Discharge Report January 1 through June 30, 1997

Company Name:	NORWOOD MARKING SYSTEMS				
Address:	Address:2538 WISCONSIN AVENUE				
	DOWNERS GROVE, ILLINOIS 60515				
Report Complet	ed By:DENNIS BOURK				
Title: SAFETY D	IRECTOR	Phone: 630-968-0646			
discharge to material disc notified of t	the sanitary sewer system. harged, the volume and concer	es of materials prohibited from Include the date, time type of ntration; what authorities were taken to control and clean up prevent a reoccurrence.			
	(Please attach addition	al sheets)			
	arges occurred during the reing the certification statement	porting period, please indicate below.			
respons disposa of my k dumped "Prohib that th	Based on my inquiry of the perible for managing compliance wal and reporting requirements, knowledge and belief, no solven or spilled into the wastewater wited Materials Discharge Reportis facility is implementing the management plan, submitted to et.	ith the accidental spill I certify that to the best ts or toxics have been s since filing the last t". I further certify e Spill containment, or			
All reports above:	must be signed by an Author	ized Agent of the company name			
Name of Author	rized Agent: DENNIS BOURK (Pleas	e type or print name)			
Signature:	•	•			
Title: SAFETY DI	RECTOR	Date: 8-12-97			
11016.		Date:			

DOWNERS GROVE SANITARY DISTRICT Prohibited Materials Discharge Report July 1 through December 31, 1994

Company Name:	NORWOOD MARKING SYSTEMS
Address:	2538 Wisconsin Ave.
	Downers Grove, IL 60515
Report Complet	ed By: Larry J. Kollins/Dennis Bourk
Title: Plant S	uperintendent Phone: 708-968-0646
discharge to material disc notified of t	occurrence of any discharges of materials prohibited from the sanitary sewer system. Include the date, time type of harged, the volume and concentration; what authorities were he discharge; what actions were taken to control and clean up and what actions were taken to prevent a reoccurrence.
	(Please attach additional sheets)
	rges occurred during the reporting period, please indicate ng the certification statement below.
disposa of my k dumped "Prohib that th	Based on my inquiry of the person or persons directly ible for managing compliance with the accidental spill 1 and reporting requirements, I certify that to the best nowledge and belief, no solvents or toxics have been or spilled into the wastewaters since filing the last ited Materials Discharge Report". I further certify is facility is implementing the Spill containment, or management plan, submitted to the Downers Grove Sanitary t.
All reports above:	must be signed by an Authorized Agent of the company named
Name of Author	ized Agent: Larry J. Kollins/Dennis Bourk (Please type or print name)
	(Trease type or print name)
Signature:	Atlanty 4/our 1. P
Title: Plant	Superintendent /Safety Director Date: 1-19-95

DOWNERS GROVE SANITARY DISTRICT Prohibited Materials Discharge Report July 1 through December 31, 1992

Company N	ame: NORWOOD MARKING SYSTEMS	
Addr	ess: 2538 Wisconsin Ave.	
	Downers Grove IL 60515	
Report Con	mpleted By: Larry J. Kollins	
Title:	Plant Manager	Phone: (708) 968-0646
discharge material notified	the occurrence of any discharge to the sanitary sewer system. discharged, the volume and concen of the discharge; what actions were taken to ial; and what actions were taken to	s of materials prohibited for Include the date, time type tration; what authorities were taken to control and community
	(Please attach additions	al sheets)
	lischarges occurred during the rep checking the certification statement	
di of du "F th so	Based on my inquiry of the peresponsible for managing compliance will sposal and reporting requirements, it my knowledge and belief, no solvent amped or spilled into the wastewaters crohibited Materials Discharge Report that this facility is implementing the elvent management plan, submitted to estrict.	th the accidental spill certify that to the best ts or toxics have been s since filing the last to. I further certify spill containment, or
All repo	orts must be signed by an Author:	ized Agent of the company named
Name of A	Authorized Agent: Larry J. Kollins	
Signature	(Please	e type or print name)
Title:	Plant Manager	Date:

DOWNERS GROVE SANITARY DISTRICT Prohibited Materials Discharge Report July 1 through December 31, 1992

Company Name: NORWOOD MARKING SYSTEMS	
Address:2538 Wisconsin Ave.	
Downers Grove IL 60515	
Report Completed By: Larry J. Kollins	
Title: Plant Manager 1	Phone: (708) 968-0646
Describe the occurrence of any discharges discharge to the sanitary sewer system. In material discharged, the volume and concentration of the discharge; what actions were the material; and what actions were taken to provide the material; and what actions were taken to provide the material;	nclude the date, time tyration; what authorities were taken to control and c can up
(Please attach additional	sheets)
If no discharges occurred during the repothat by checking the certification statement b	
Based on my inquiry of the pers responsible for managing compliance wit disposal and reporting requirements, I of my knowledge and belief, no solvents dumped or spilled into the wastewaters "Prohibited Materials Discharge Report" that this facility is implementing the solvent management plan, submitted to t District.	th the accidental spill certify that to the best or toxics have been since filing the last. I further certify Spill containment, or
All reports must be signed by an Authoriz above:	ed Agent of the company named
Name of Authorized Agent: Larry J. Kollins	
Signature: Yukuf / Kellin	type or print name)
Title: Plant Mapager	Date:



Marking & Equipment Co., Inc.

P.O. BOX 358 2538 WISCONSIN AVENUE DOWNERS GROVE, IL 60515

TELEPHONE 312-968-0646 TWX 910-695-0111

July 17, 1985

Downers Grove Sanitary District 2710 Curtiss Street Downers Grove IL 60515

Gentlemen:

Based on my inquiry of the person or persons directly responsible for managing compliance with the accidental spill disposal and reporting requirements, I certify that to the best of my knowledge and belief, no prohibited materials have been dumped into the sanitary wastewaters since filing the last Accidental Spill Disposal Report. I further certify that this facility is implementing the solvent management plan submitted to the District.

Larry J. Kollins Plant Superintendent

LK:vme

Reference Documents



2538 Wisconsin Avenue Downers Grove, IL 60515-4293 U.S.A.

Telephone

1-800-626-3464

1-630-968-0646

Fax

1-630-968-9447

January 24, 2002

Illinois Environmental Protection Agency Bureau of Land (#24) Solid Waste Section 1021 North Grand Avenue East Post Office Box 19276 Springfield, Illinois 62794-9276

Dear Sir/Madam:

Attached please find the completed 3-page, 2001 Nonhazardous Special Waste Annual Report for Norwood Marking Systems, Inc.'s (Norwood) facility located at 2538 Wisconsin Avenue in Downers grove, Illinois (Illinois Special Waste Generator ID Number: 0430305021). The facility is required to complete and submit this report, as required under the Illinois Environmental Protection Act 22.01 and the Illinois Pollution Control Board Rules, since it has shipped non-hazardous special waste out-of-state for treatment, storage, disposal, or recycling.

If you have questions regarding this submittal, please do not hesitate to contact me at 630-968-0646, or the report preparer, Claude E. Mays, III, Senior Project Manager for MOSTARDI PLATT ENVIRONMENTAL (MPE), at 630-993-2106.

Sincerely,

Norwood Marking Systems, Inc.

Robert Hitchcock Operations Manager

RH/el



1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 Renee Cipriano, Director

Illinois Nonhazardous Special Waste Annual Report Site Information Form

(This form must be completed for each site that submits an annual report)

Reporting Year: 2001 Site Information:
Site IEPA Identification Number: 0430305021
Site Name: Norwood Marking Systems, Inc.
Site Street Address: 2538 Wisconsin Avenue
Site City: Downers Grove
Site State: IL Site Zip Code: 60515 Site Telephone: 630-968-0646
 Check one of the following, if applicable: Generator- No nonhazardous special waste was shipped to an out of state TSDR Facility in this reporting year. Facility TSDR- No nonhazardous special waste was received at this TSDR Facility in this reporting year.
Site Mailing Address Information: (Complete the following information only if site mailing label is incorrect.)
Company:Telephone:
Contact Person:
Street Address: P.O. Box
City:State:Zip Code: Annual Report Certification
Annual Report Certification I certify under penalty of law that I have examined and am familiar with the information submitted in this and any attached continuation sheets or other attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete, I am aware that there are significant penalties for submitting false information, including the possibility of fin and imprisonment.
Name (print/type): Robert Hitchcock Telephone: 630-968-0646
Signature: Date: 1-24-02

This Agency is authorized to require this information under Illinois Revised Statutes, 1989, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$25,000 for each day the failure continued, a fine up to \$50,000 and imprisonment up to 5 years. This form has been approved by Forms Management Center.



1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276

RENEE CIPRIANO, DIRECTOR

Illinois Generator Nonhazardous Special Waste 2001 Annual Report For Waste Shipped Out-Of-State

043 03050 21

NORWOOD MARKING EQUIPMENT 2538 WISCONSIN AVE DOWNERS GROVE IL 60515

Page __2 __ of __3

	, ·							
Record Field	Management Code	Out-of-State TSDR Facility Name & Address (Address must match ID #) Pollution Control	TSDR Facility IEPA ID#	Waste Code	Quantity	иом	Comment	
A.	13	Industries of Indiana 4343 Kennedy Avenue East Chicago, IN 46312	9180890026	_13	275	G		
В.	03	Pollution Control Industries of Indiana 4343 Kennedy Ave. East Chicago, IN 46312	9180890026	12	440	G		
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D.	,		,					
E.								
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-								

GEORGE H. RYAN, GOVERNOR



1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276

Renee Cipriano, Director

2001 Illinois Nonhazardous Special Waste Annual Report Hauler Information

Page	3	۸f	3
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Record Field	Uniform Hauler Permit ID Number	Hauler Name	Hauler Address, City, State and Zip Code	Comments
	484475/		115 W. National Avenue	
	ILD 984785238	Harrison Francisco	Addison, IL 60101	-
Α.	1111 904/03230	Hazchem Environmental	-	
	1011751		115 W. National Avenue	
	484475/		Addison, IL 60101	
В.	ILD 984785238	Hazchem Environmental		
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2538 Wisconsin Avenue Downers Grove, IL 60515-4293 U.S.A.

Telephone

1-800-626-3464

1-630-968-0646

Fax

1-630-968-9447

January 24, 2001

Illinois Environmental Protection Agency Bureau of Land (#24) Solid Waste Section 1021 North Grand Avenue East Post Office Box 19276 Springfield, Illinois 62794-9276

Dear Sir/Madam:

Attached please find the completed 3-page, 2001 Nonhazardous Special Waste Annual Report for Norwood Marking Systems, Inc.'s (Norwood) former facility located at 520 5th Avenue in Naperville, Illinois (Illinois Special Waste Generator ID Number: 0434675340). The facility is required to complete and submit this report, as required under the Illinois Environmental Protection Act 22.01 and the Illinois Pollution Control Board Rules, since it has shipped non-hazardous special waste out-of-state for treatment, storage, disposal, or recycling.

Please note that Norwood completely moved out of the above referenced location as of March 31, 2001, and this will be the last report submitted for this location. Further, Norwood submitted a May 1, 2001 letter to the Illinois Environmental Protection Agency (IEPA) Permits Section requesting that the following generator identification numbers be made inactive - U.S. EPA: ILR000077578 and IEPA: 0434675340. If IEPA's database still shows these numbers active, please inactivate them.

If you have questions regarding this submittal, please do not hesitate to contact me at 630-968-0646, or the report preparer, Claude E. Mays, III, Senior Project Manager for MOSTARDI PLATT ENVIRONMENTAL (MPE), at 630-993-2106.

Sincerely,

Norwood Marking Systems, Inc.

Robert Hitchcock Operations Manager

RH/el



1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276

Renee Cipriano, Director

Illinois Nonhazardous Special Waste Annual Report Site Information Form

(This form must be completed for each site that submits an annual report)

Reporting Year: 2001 Site Information:
Site IEPA Identification Number: 0434675340
Site Name: Norwood Marking Systems, Inc.
Site Street Address: 520 West 5th Avenue
Site City: Naperville
Site State: IL Site Zip Code: 60565-2901 Site Telephone:
 Check one of the following, if applicable: Generator- No nonhazardous special waste was shipped to an out of state TSDR Facility in this reporting year. Facility TSDR- No nonhazardous special waste was received at this TSDR Facility in this reporting year.
Site Mailing Address Information: (Complete the following information only if site mailing label is incorrect.)
Company:Telephone:
Contact Person:
Street Address:P.O. Box
City:State:Zip Code:
Annual Report Certification I certify under penalty of law that I have examined and am familiar with the information submitted in this and any attached continuation sheets or other attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitte information is true, accurate and complete, I am aware that there are significant penalties for submitting false information, including the possibility of financian imprisonment.
Name (print/type): Robert Hitchcock Telephone: 630-968-0646
Signature: Notat Hitting Date: 1-24-02

This Agency is authorized to require this information under Illinois Revised Statutes, 1989, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$25,000 for each day the failure continued, a fine up to \$50,000 and imprisonment up to 5 years. This form has been approved by Forms Management Center.



1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276
RENEE CIPRIANO, DIRECTOR

Illinois Generator Nonhazardous Special Waste 2001 Annual Report For Waste Shipped Out-Of-State

043 46753 40

NORWOOD MARKING SYSTEMS

520 W 51H AVE Naperville IL 60563-2901

Page _2 ___ of __3

Record Field	Management Code	Out-of-State TSDR Facility Name & Address (Address must match ID #)	TSDR Facility IEPA ID#	Waste Code	Quantity	UOM	Comments
Α.	03	Address (Address must match ID #) Pollution Control Industries of Indiana 4343 Kennedy Ave. East Chicago, IN 46312 Pollution Control	9180890026		220	G	
В.	13	Industries of Indiana 4343 Kennedy Ave. East Chicago, IN 46312	9180890026	13	330		
C.						-	
D.							
E.							·
F.							
G.							
Н.							
1.							
J							

GEORGE H. RYAN, GOVERNOR



1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276

RENEE CIPRIANO, DIRECTOR

2001 Illinois Nonhazardous Special Waste Annual Report Hauler Information

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rage		نــنـــ 10	<u> </u>

Record Field	Uniform Hauler Permit ID Number	Hauler Name	Hauler Address, City, State and Zip Code	Comments
	484475/		115 W. National Avenue	
			Addison, IL 60101	
А.	ILD 984785238	Hazchem Environmental		·
				-
			115 W. National Avenue	
	484475/		Addison, IL 60101	
В.	ILD 984785238	Hazchem Environmental		·
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Mostardi-Platt Associates, Inc. A Full-Service Environmental Consulting Company 945 Oaklawn Avenue Eimhurst, Illinois 60126-1012 Phone 630-993-9000 Faceimile 630-993-9017

gang penggagan kadalah bada Sabata dan

June 7, 2001

Ms. Elaine LaBuda Norwood Marking Systems, Inc. 2538 Wisconsin Avenue Downers Grove, Illinois 60515-4293



Dear Ms. LaBuda:

MOSTARDI-PLATT ASSOCIATES, INC. (Mostardi Platt) has reviewed the United States Department of Transportation (U.S. DOT) Hazardous Materials Registration Program requirements for the Norwood Marking Systems, Inc. facilities in Downers Grove and Frankfort, Illinois. At this time, Norwood Marking Systems, Inc. is not required to register with U.S. DOT as a person that offers any shipment of hazardous materials (including hazardous waste) that requires placarding for transportation (49 CFR Part 107, Subpart G – Registration of Persons Who Offer or Transport Hazardous Materials).

In addition, based on information provided by Norwood Marking Systems, Inc., these facilities do not offer hazardous waste for transportation since they are not hazardous waste generators. However, these facilities do offer hazardous materials that are typically combustible or flammable in nature for transportation in non-bulk packaging. As long as Norwood Marking Systems, Inc. keeps offering hazardous materials shipments in quantities of less than 1,000 pounds, registration is not required.

If you have any questions regarding this matter, please do not hesitate to call me at 630-993-2106.

Sincerely,

MOSTARDI-PLATT ASSOCIATES, INC.

Claude E. Mays III, CHMM, REP

Senior Project Manager

CEM/kmt



1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276

Renee Cipriano, Director

2001 Illinois Nonhazardous Special Waste Annual Report Hauler Information

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Page		_ 01		-

Record Field	Uniform Hauler Permit ID Number	Hauler Name	Hauler Address, City, State and Zip Code	Comments
A.	484475/ ILD 984785238	Hazchem Environmental	Addison, IL 60101	- - -
В.	484475/ ILD 984785238	Hazchem Environmental	115 W. National Avenue Addison, IL 60101	-
C.				-
D.				-
E.				- - - -
F.		·		-
G.				-
			,	-

Mostardi-Platt Associates, Inc. A Full-Service Environmental Consulting Company 945 Oaklawn Avenue Eimhurst, Illinois 60126-1012 Phone 630-993-9000 Faceimile 630-993-9017

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Ms. Elaine LaBuda Norwood Marking Systems, Inc. 2538 Wisconsin Avenue Downers Grove, Illinois 60515-4293



Dear Ms. LaBuda:

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In addition, based on information provided by Norwood Marking Systems, Inc., these facilities do not offer hazardous waste for transportation since they are not hazardous waste generators. However, these facilities do offer hazardous materials that are typically combustible or flammable in nature for transportation in non-bulk packaging. As long as Norwood Marking Systems, Inc. keeps offering hazardous materials shipments in quantities of less than 1,000 pounds, registration is not required.

If you have any questions regarding this matter, please do not hesitate to call me at 630-993-2106.

Sincerely,

MOSTARDI-PLATT ASSOCIATES, INC.

Claude E. Mays III, CHMM, REP

Senior Project Manager

CEM/kmt



2538 Wisconsin Avenue Downers Grove, IL 60515-4293 U.S.A.

Telephone 1-800-626-3464

1-630-968-0646

Fax 1-630-968-9447

April 17, 2001

Illinois Environmental Protection Agency Bureau of Land (#24) Solid Waste Section 1021 North Grand Avenue East Post Office Box 19276 Springfield, Illinois 62794-9276

Dear Sir/Madam:

Attached please find the completed, revised 3-page, 2000 Nonhazardous Special Waste Annual Report for Norwood Marking Systems, Inc.'s facility located at 2538 Wisconsin Avenue in Downers Grove, Illinois (Illinois Special Waste Generator ID Number: 0430305021). The facility is required to complete and submit this report, as required under the Illinois Environmental Protection Act 22.01 and the Illinois Pollution Control Board Rules, since it has shipped non-hazardous special waste out-of-state for treatment storage, disposal, or recycling. This revision submittal is due to a manifest not being accounted for in the first submittal.

If you have questions regarding this submittal, please do not hesitate to contact me at 630-968-0646, or the report preparer, Claude E. Mays, III, Senior Project Manager for MOSTARDI-PLATT ASSOCIATES, INC. (Mostardi-Platt), at 630-993-2106.

Sincerely,

Norwood Marking Systems, Inc.

Robert Hitchcock
Operations Manager

RH/el enclosure

614-175 4/18/01 WT LTR LBS PKG ID 4062335 SERVICE 1DA OR:EL/RH TRACKING# 1Z6141750140623359



1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276
THOMAS V. SKINNER, DIRECTOR

Illinois Nonhazardous Special Waste Annual Report Site Information Form

(This form must be completed for each site that submits an annual report)

Reporting Year: 2000	
Site Information:	
Site IEPA Identification Number: 043 03050 21	Revision 1
Site Name: Norwood Marking Systems, Inc.	
Site Street Address: 2538 Wisconsin Avenue	
Site City: Downers Grove	
Site State: I1 Site Zip Code: 60515 Site To	elephone: 630-968-0646
Check one of the following, if applicable:	
Generator- No nonhazardous special waste was TSDR Facility in this reporting year.	shipped to an out of state
Facility TSDR- No nonhazardous special waste	was received at this TSDR
Facility in this reporting year.	
Site Mailing Address Informa	tion:
(Complete the following information only if site mailing	g label is incorrect.)
Company:	Telephone:
Contact Person:	
Street Address:	P.O. Box
City: State:	Zip Code:
Annual Report Certification	
I certify under penalty of law that I have exemined and am familier with the information submor other attached documents, and that based on my inquiry of those individuals immediately believe that the submitted information is true, accurate and complete, I am aware that there a information, including the possibility of line and imprisonment.	responsible for obtaining the information, I
Name (print/type) Robert Hitchcock	Telephone: 630-968-0646
Signature: 1 Hithiak	Date: 4-17-01

. .

his Agency is authorized to require this information under litinois Revised Statutes, 1989, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$25,000 for each day the failure continued; a final Op to \$50,000 and imprisonment up to 5 years. This form has been approved by Forms Management Center.



1021 NORTH GRAND AVENÚE EAST, P.O. BOX 19276, SPRINGHELD, I NOIS 02794-9276
THOMAS V. SKINNER, DIRECTOR

Illinois Generator Nonhazardous Special Waste 2000 Annual Report For Waste Shipped Out-Of-State

043 03050 21

NORWOOD MARKING EQUIPMENT 2538 WISCONSIN AVE FOUNERS GROVE 60515

Revis	ion	1			
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			T				
Record Field	Management Code	Out-of-State TSDR Facility Name & Address (Address must match ID #)	TSDR Facility IEPA ID#	Wasti Code	Quantity	UOM	Comments
	13	Pollution Control Industries of 4343 Kennedy Avenue East Chicago, Indiana 46312	IN 918 089 0026	12	100	_	
Α.		•		13_		G	
В.	03	Pollution Control Industries of 43/3 Kennedy Avenue East Chicago, Indiana 16312	IN 9180890026	12		G_	·
В.				14		1	
C.	04	Pollution Control Industries of 4343 Kennedy Avenue East Chicago, Indiana 46312	IN 9180890026	15	0.24	2	
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1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276
THOMAS V. SKINNER, DIRECTOR

2000 Illinois Nonhazardous Special Waste Annual Report Hauler Information

Revision 1	
Page 3 of 3	

Record IEPA Special Waste Field Hauler Permit or		Hauler Name	Hauler Address, City, State and Zip Code	Comments
1 iciu	Uniform Hauler Permit ID Number			
A.	484475	Hazchem Environmental	115 W. National Avenue Addison, IL 60101	//X · .
ì.	•			
В.	027071704	Leader Industries: Inc.	284 W 1050 N Chesterton. IN 46304	
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н.				

IL 532-2045 LPC 445 Rev. 12/2000 edrotine (in Plant Section State), in or A Full-Service Environmental Consulting Company 945 Oaklawn Avenue Elmhurst, Illinois 60126-1012 Phone 630-993-9000 Facsimile 630-993-9017

January 18, 2001

Mr. Robert Hitchcock Operations Manager Norwood Marking Systems, Inc. 2538 Wisconsin Avenue Downers Grove, Illinois 60515-4293



Dear Mr. Hitchcock:

Enclosed please find two (2) copies of the 3-page 2000 Nonhazardous Special Waste Annual Report for the Illinois Environmental Protection Agency (IEPA) prepared by MOSTARDI-PLATT ASSOCIATES, INC. (Mostardi Platt) for the Norwood Marking Systems, Inc. facility in Downers Grove, Illinois.

Please copy the enclosed letter of transmittal to the IEPA onto your corporate letterhead, and mail a signed copy of the letter with one (1) copy of the 2000 Nonhazardous Special Waste Annual Report to the IEPA. Please file the other copy on-site since it must be kept available for a minimum of three (3) years.

If you have any questions, please feel free to call me at 630-993-2141.

Sincerely,

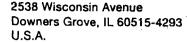
MOSTARDI-PLATT ASSOCIATES, INC.

Claude E. Mays, III; CHMM, REP

lle E /LA

Senior Project Manager

Enclosures





January 22, 2001

Illinois Environmental Protection Agency Bureau of Land (#24) Solid Waste Section 1021 North Grand Avenue East Post Office box 19276 Springfield, Illinois 62794-9276

Dear Sir/Madam:

Attached please find the completed 3-page, 2000 Non-hazardous Special Waste Annual Report for Norwood Marking Systems, Inc.'s facility located at 2538 Wisconsin Avenue in Downers Grove. Illinois (Illinois Special Waste Generator ID Number: 0430305021). The facility is required to complete and submit this report, as under the Illinois Environmental Protection Act 22.01 and the Illinois Pollution Control Board Rules, since it has shipped non-hazardous special waste out-of-state for treatment, storage, disposal, or recycling.

If you have questions regarding this submittal, please do not hesitate to contact me at 630-968-0646, or the report preparer. Claude E. Mays, III. Senior Project Manager for MOSTARDI-PLATT ASSOCIATES, INC. (Mostardi Platt), at 630-993-2106.

Sincerely.

Robert Hitchcock Operations Manager

RH/el



1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276
THOMAS V. SKINNER, DIRECTOR

Illinois Nonhazardous Special Waste Annual Report Site Information Form

(This form must be completed for each site that submits an annual report)

Danasking Vary 2000		
Reporting Year: 2000 Site Info	rmation:	
Site IEPA Identification Number: 043 03	050 21	
Site Name: Norwood Marking Systems, In	C.	
Site Street Address: 2538 Wisconsin Ave	nue	
Site City: Downers Grove		
Site State: Il Site Zip Code: 60515	Site Teleph	one: 630-968-0646
Check one of the following, if applicable:		
Generator- No nonhazardous speci- TSDR Facility in this reporting year.	al waste was ship	ped to an out of state
Facility TSDR- No nonhazardous specifity in this reporting year.	pecial waste was	received at this TSDR
Site Mailing Add	ress Information:	
(Complete the following information only	if site mailing lab	el ls incorrect.)
Company:	Te	lephone:
Contact Person:		
Street Address:	P.O	. Box
City:	State: Z	ip Code:
Annual Report Certification I certify under penalty of law that I have examined and am familiar with or other attached documents, and that based on my inquiry of those inci- believe that the submitted information is true, accurate and complete, i information, including the possibility of fine and imprisonment.	dividuals immediately responsi	ble for obtaining the information, I
Name (print/type): A BERT HITCH	cockTe	lephone: 630-968-0646
Signature: X. Hatthank		Date: <u>/- 22-0/</u>

l. 532-2615 PC 578 Rev. 12/2000

This Agency is authorized to require this information under illinois Revised Statutes, 1989, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$25,000 for each day the failure continued; a fine up to \$50,000 and imprisonment up to 5 years. This form has been approved by Forms Management Center.



1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276
THOMAS V. SKINNER, DIRECTOR

Illinois Generator Nonhazardous Special Waste 2000 Annual Report For Waste Shipped Out-Of-State

043 03050 21

NORWOOD MARKING EQUIPMENT 2538 WISCONSIN AVE DOWNERS:GROVE IL 60515

Page 2 of 3

Record Field	, Management Code	Out-of-State TSDR Facility Name & Address (Address must match ID #) Pollution Control Industries of	TSDR Facility IEPA ID#	Waste Code	Quantity	UOM	Comments
Α.	13	Pollution Control Industries of 4343 Kennedy Avenue East Chicago Indiana 46312	IN 918 089 0026	_13_	100	_G	
В.	03	Pollution Control Industries of 4343 Kennedy Avenue East Chicago, Indiana 46312	IN <u>9180890026</u>	_12	100	_G	
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1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276
THOMAS V. SKINNER, DIRECTOR

2000 Illinois Nonhazardous Special Waste Annual Report Hauler Information

Page 3 of 3

Record Field	. IEPA Special Waste Hauler Permit or Uniform Hauler Permit ID Number	Hauler Name	Hauler Address, City, State and Zip Code	Comments
Α,	484475	Hazchem Environmental	115 W. National Avenue Addison, IL 60101	
В.	027071704	<u>Leader Industries, Inc.</u>	284 W 1050 N Chesterton, IN 46304	
Б.	027071704	Leader Industries. Inc.		
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A Full-Service Environmental Consulting Company 945 Oaklawn Avenue Elmhurst, Illinois 60126-1012 Phone 630-993-9000 Facsimile 630-993-9017 1 1 1 2 99

January 26, 2000

Mr. Robert Hitchcock Operations Manager Norwood Marking Systems, Inc. 2538 Wisconsin Avenue Downers Grove, Illinois 60515



Dear Mr. Hitchcock:

Enclosed please find the 1999 Illinois Nonhazardous Special Waste Annual Report prepared for the Norwood Marking Systems, Inc. facility located at 2538 Wisconsin Avenue in Downers Grove, Illinois, pursuant to Section 809.501(h), Title 35 Illinois Administrative Code. The nonhazardous special waste reporting requirement applies to any facility located in Illinois that generates nonhazardous special waste that is taken out of state to a facility for treatment, storage, disposal, or recycling. Please sign the original and make a copy of it for your records. Then mail the original to the following address by no later than February 1, 2000:

Illinois Environmental Protection Agency Bureau of Land (#24) Solid Waste Section 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276

If you have any questions please call me at 630-993-2126.

Sincerely,

MOSTARDI-PLATT ASSOCIATES, INC.

Joel Lueking Staff Scientist

JL/avb

Enclosures



1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276

THOMAS V. SKINNER, DIRECTOR Illinois Nonhazardous Special Waste Annual Report Site Information Form

(This form must be completed for each	site that sub	mits an annual report)
Reporting Year: 1999		
Site Inform	nation:	
Site IEPA Identification Number: 043030502	21	
Site Name: Norwood Marking Systems, Inc		
Site Street Address: 2538 Wisconsin Avenu	le	
Site City: Downers Grove		·
Site State: IL Site Zip Code: 60515	Site T	Telephone: 630-968-0646
Check one of the following, if applicable:		
Generator- No nonhazardous special TSDR Facility in this reporting year.	l waste wa	s shipped to an out of state
Facility TSDR- No nonhazardous spe Facility in this reporting year.	ecial waste	e was received at this TSDR
Site Mailing Addre	ss Informa	ation:
(Complete the following information only is	f site maili	ng label is incorrect.)
Company:		Telephone:
Contact Person:		
Street Address:	· · · · · · · · · · · · · · · · · · ·	P.O. Box
City:	_State:	Zip Code:
Annual Report Certification I certify under penalty of law that I have examined and am familiar with the or other attached documents, and that based on my inquiry of those indivibelieve that the submitted information is true, accurate and complete, I are information, including the possibility of fine and imprisonment.	iduals immediatel	y responsible for obtaining the information, I
Name (print/type): Robert Hitchcock		Telephone:630-968-0646
Signature: X. Hittunk	<u></u>	Date: <u>/-27-00</u>

578 Rev. 11/99



1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276
THOMAS V. SKINNER, DIRECTOR

Illinois Generator Nonhazardous Special Waste 1999 Annual Report For Waste Shipped Out-Of-State

Norwood Marking Systems, Inc. 2538 Wisconsin Avenue Downers Grove, Illinois 60515

Record Field	Management Code	Out-of-State TSDR Facility Name & Address (Address must match ID Number)	TSD IEPA ID Number	Waste Code	Quantity	Unit of Measure	Comments
A	_06	Pollution Control IndIN 4343 Kennedy Avenue East Chicago, IN 46601	IL9180890026	_13	250	1_1_	
В.	_09	Same:as above	<u>Same as above</u>	_12	200	1_1_	
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1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276
THOMAS V. SKINNER, DIRECTOR

1999 Illinois Nonhazardous Special Waste Annual Report Hauler Information

Record Reld	IEPA Special Waste Hauler Permit or Uniform Hauler Permit ID Number	Hauler Name	Hauler Address, City, State and Zip Code	Comment
A.	<u>UPM0484475IL</u>	HazChem Environmental	1115 National Avenue Addison, IL 60101	
В.	UPM0350461IL	North Branch Environmental	7 North 458 Garden Avenue Roselle, IL 60172	
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D.				
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5-034-01

P.O. BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

IL532-0610 State Form LPC 62 8/81 PLEASE TYPE EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039 (Form designed for use on eitte (12-pitch) typewriter.) Manifest Document No 1. Generator's US EPA ID No. information in the shaded areas is not required by Federal law, but is required by Illinois law. UNIFORM HAZARDOUS 2. Page 1 WASTE MANIFEST ILD984848564 83853 1 A. Illinois Manifest Document Number Location If Different NORWOOD MARKETING FEE PAID .0985 2538 WISCONSIN DOWNERS GROVE IF APPLICABLE B. Generator's II. IL 60515 ID Number | 0430805021 *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* 630 968 064 US EPA ID Number Transporter's 5. Transporter 1 Company Name ID Number UPW151288I Transporter's Phone 47) 468-6600 SAFETY-KLEEN SYSTEMS, INC SCR000075150 7. Transporter 2 Company Name US EPA ID Number Transporter's 8. **ID Number** F. Transporter's Phone (9. Designated Facility Name and Site Address SAFETY-KLEEN SYSTEMS, 633 E 138TH ST 000654 10. US EPA ID Number G. Facility's IL ID Number | 0310690006 ILD980613913 H. Facility's Phone (708) DOLTON, IL 60419 225-8100 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) Containers 13. 14. Unit Total Waste No. No. Quantity Wt/Vo Type a. HAZARDOUS WASTE, LIQUID, N. O 9 NA3082 PG III (DO39)(ERG#171) EPA HW Number N. O. S. DM G D039 AQUEDUS PARTS WASHER SOLUTION (8.3#/GAL) 002 002 E **EPA HW Number** b. R A T EPA HW Number Ç. 0 R **EPA HW Number** d. K. Handling Codes for Wastes Listed Above In Item #14 J. Additional Description for Materials Listed Above 15. Special Handling Instructions and Additional Information 5. Special Handling Instructions and Additional Information 0148 101441666 0019383853 0002576794 SK AUTHORIZED TO RETAIN LICENSED SUBSEQUENT CARRIER, AS NECESSARY. *EMERGENCY RESP#800-468-1760 24HR 10070 B Α 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Month Dav Year Printed/Typed Name Signature 28 0:1 1941 Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Month Day Year ORTER 18. Transporter 2 Acknowledgement of Receipt of Materials Date Year Printed/Typed Name Signature Month Dav 19. Discrepancy Indication Space Date Contification materials covered b Signature

1004 and 1021, that this information

be submitted to the

This Agency is authorized to require, pursuant to Hilnois Revised Statute, 1988, Chapter 111 1/2, Section this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

LPC 62 8/81

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

IL532-0610 State Form LEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039 UNIFORM HAZABDOUS. CF 1. Generator's information in the shaded areas is not required by Federal law, but is required by WASTE MANIFEST 10-0 Illinois law 10101 Illinois Manifest Document Number 3. Generator's Name and Mailing Address Location If Different Per Kate Kenny 6 FEE PAID IF APPLICABLE no Norwood Marking Systems 2538 Wisconsin Awenue B. Generator's IL Downers Grove Illinois 60415 4. 24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS 630-458-1910 **ID Number** C. Transporter's 5. Transporter 1 Company Name US EPA ID Number ID Number **484475** ILD984785238 Transporter's Phone (£30)458-4910 <u>HAZCHEM ENVIRONMENTA</u> US EPA ID Number 7. Transporter 2 Company Name Transporter's **ID Number** F. Transporter's Phone (630-529-0240 9. Designated Facility Name and Site Address 10. US EPA ID Number Pollution Control Industries of Indiana G. Facility's IL (170 iD Number **4343 KENNEDY AVENUE** H. Facility's Phone (EAST CHICAGO INDIANA 46312 ILD000646943 219-397-3951 č 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers Entergency Unit Total Waste No. Type No. Quantity Wt∕Vo NONE Non Regulated Material Not Regulated By D.O.T. DM000,5,5 090002 Oll nesponse at 2177782-7860 and EPA HW Number Non Regulated Material None Not Regulated By D.O.T. 090002 001,10 COOLANT EPA HW Number EPA HW Numbe d. J. Additional Description for Materials Listed Above K. Handling Codes for Wastes Listed Above in Item #14 11a) PCI - 162845 # x 55 cx 10/10 11b) PCI - 162846 2 x 55 the National 15. Special Handling Instructions and Additional Information 630-968-0646 Generator Phone Response 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. Center If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date <u>a</u> Month Day Printed/Typed_Name Signature 1001 17. Transporter 1 Acknowledgement of Receipt of Materials Date 424-8802 Printed/Typed Name Month Day Signature JOHN50N CHRIS 10100 18. Transporter 2 Acknowledgement of Receipt of Materials 9 Printed/Typed Name Signature Month Day 19. Discrepancy Indication Space 'smession 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name Signature

Statut or ope

PLEASE TYPE

P.O. BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

Form Approved, OMB No. 2050-0039

5-034-01

State Form LPC 62 8/81

il.532-0610

(Form designed for use on eitte (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Manifes 1. Generator's US EPA ID No. 1 L D 9 8 4 8 4 8 5 6 4 UNIFORM HAZARDOUS Information in the shaded areas is not required by Federal law, but is required by (Deculyaem) No. WASTE MANIFEST 3. Generator's Name and Mailing Address A. Illinois Manifest Document Number Location If Different 9891525 FEE PAID NORWOOD MARKETING 2538 WISCONSIN B. Generator's IL 0430305021 DOWNERS GROVE IL 60515 ID Number 4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* 530 958-0646 Transporter's ID Number UPW151288IL 5. Transporter 1 Company Name TEMS. Transporter's Phone 847) 458-6600 US EPA ID Number 7. Transporter 2 Company Name 8. E. Transporter's **ID Number** F. Transporter's Phone (9. Designated Facility Name and Site Address 00654 US EPA ID Number 10. SAFETY-KLEEN SYSTEMS, INC. G. Facility's IL 0310690006 633 E 138TH ST DOLTON, ID Number | 5 08, 225-8100 IL 60419 ILD980613913 H. Facility's Phone (č 12. Containers 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 13 14 <u></u> Total Unit Waste No. No. Wt/Vol Quantity EPA HW Number A HAZARDOUS WASTE, LIQUID, N.O.S. 9 NA3082 PG III (D039)(ERG#171) AQUEOUS PARTS WASHER SOLUTION (8.3#/GAL) رديون M s.0 2 01013 **EPA HW Number EPA HW Number** 0 C. R EPA HW Number d. K. Handling Codes for Wastes Listed Above in Item #14 J. Additional Description for Materials Listed Above 15. Special Handling Instructions and Additional Information 0018873133 MFCT R/T#101311503 0002-5087-34 EMERGENCY RESP 800-468-1760(24 HR). IF UNDELIVERABLE RETURN TO GENERATOR. SK CORP AUTHORIZED TO RETAIN LICENSED SUBSEQUENT CARRIERS AS NECESCARY. 15. Special Handling Instructions and Additional Information SEDOTA A: 10070 B; 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Printed/Typed Name Month Signature 17. Transporter 1 Acknowledgement of Receipt of Materials TRANSP Signature Printed/Typed Name RIM 18. Transporter 2 Acknowledgement of Receipt of Materials Date ORTER Day Printed/Typed Name Signature Month Year 19 Discrepancy Indication Space FACI Date 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Month Day Year Signa 0090 and 1021, that this information be submitted to the Age of violation. Falsification of this information may result in ois Revised Statute, 1989, Chapter 111 against the owner or operator not to. This form has been approved by the Forms

STATE OF ILLINOIS

P.O. BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS

5-034 O1

AND SPECIAL WASTE

L	EASE TYPE (Form designed for use on elite (1)		EPA Form 8700	1-22 (Rev. 6-89)	Form Appr	oved. OMB No. 2050	-0039	
-	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US ILD98	S EPA ID No. 4848564	3 Bogungent No.	2. Page 1 of	Information in the required by Feder Illinois law.	e shaded areas is al law, but is required	not i by
	3. Generator's Name and Mailing Address NORWOOD MARKETING 2538 WISCONSIN		on If Different		A. Illinois Ma	e ii	O FEE PAID O IF APPLICABI	LE
	DOWNERS GROVE 4. *24 HOUR EMERGENCY AND SPILL ASSIST	IL 6051 FANCE NUMBERS		1 6	ID Numbe C. Transporte	0430	30,5021	
	5. Transporter 1 Company Name SAFETY-KLEEN SYSTEMS,	INC 6.	SCROOOO75	umber L 5 0	ID Numbe	CFM.	151288IL 7 ⁾ 468-656	
	7. Transporter 2 Company Name	8.	US EPA ID N	umber	E. Transporti	er's	// 468-65t	
	9. Designated Facility Name and Site Address	00654 ^{10.}	US EPA ID N	umber	F. Transports	· · · · · · · · · · · · · · · · · · ·	•)	
	SAFETY-KLEEN SYSTEMS, 1633 E 138TH ST DOLTON, IL 604.		ILD9806139	913	ID Numbe			<u></u>
	11. US DOT Description (Including Proper Shipp	ing Name, Hazard		12. Conta	ainers	13. 14.	1.	
] 3				No.		otal Unit antity Wt/Vol	Waste No.	
E 7	A. HAZARDOUS WASTE, LIC 9 NA3082 PG III (D039) AQUEOUS PARTS WASHER SC	(ERG#171)		102	DM 0()(530 G	ELV HAN Million	
2	b.						EPA HW Number	r
t r								
0	c.						EPA HW Number	ř
₹] .] , ,			
	d.						EPA HW Number	<i>-</i>
	J. Additional Description for Materials Listed Abo	ve :			K. Handling C	Codes for Wastes	Listed Above	
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	41				rn	124		
	15. Special Handling Instructions and Additional EMERGENCY RESP 800-468 SK CORP AUTHORIZED TO	-1760(24	0018330529 MR). IF UNDE	CLIVERABL	E RETUR	IN TO GEI	NERATOR.	
	SK CORP AUTHORIZED TO	SKD	OT# A: 100	70 B:	C:): 	
	 GENERATOR'S CERTIFICATION: I hereby dec proper shipping name and are classified, packed according to applicable international and nations 	d, marked, and label al government regula	ed, and are in all respects ations.	in proper condition	for transport b	y highway		
	If I am a large quantity generator, I certify that be economically practicable and that I have sele and future threat to human health and the envir select the best-waste management method that	ected the practicable onment; OR, if I am	method of treatment, stor a small quantity generator	ne and toxicity of viage, or disposal cur, i have made a go	vaste generated irrently available ood faith effort to	to the degree in to me which min o minimize my wa	ave determined to imizes the present ste generation and Date	i i
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	- Kling			5			67310	')
2	18. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name	of Materials	Signature	$\langle \cdot \rangle$			Date Month Day Yo	'ear
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# # CO	19. Discrepancy Indication Space							•-
i i	20. Facility Owner or Operator: Certification of re	ceipt of hazardous	materials covered by th	is manifest except	t as noted in ite	em 19.	Date	
4	Printed/Typed Name Y. W. Hits		Signature 2	1. A.	<u> </u>		Month Day Y	'ear \ 1
	This Agency is authorized to require, pursuent to Illinois Re this information may result in a civil penelty against the o	wner or operator not	to exceed \$25,000 per day	and 1021, that this of violation. Falsificati	information be so on of this informa	ubmitted to the Age	ncy, Fallure to provid a fine up to \$50,00	
ç	per day of violation and imprisonment up to 5 years. This form has b	een approved by the For	ms Management Center.			-		

STATE OF ILLINOIS

P.O. BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

EAST TYPE (5-034 Form designed for use on elite (1	-01 2-pitch) typewriter.)	Form LPC 62 8/8 EPA Form 8		22-0610 v. 6-89)	F	orm-Approved.	OMB No. 20	50-0039
UNIFORM	HAZARDOUS MANIFEST	1. Generator's US E ILD984		661	Anifest Ment No. 96		requ	aired by Fede one law.	the sheded areas is no eral law, but is required by
3. Generator's Name NORWOOD MA 2538 WISCO DOWNERS GE 4. 24 HOUR EMERG	ARKETING		If Different	06.45		Ba Ga	982 Perators L Namber	088	
5. Transporter 1 Comp	pany Name	INC 6.	US EPA ID SCROOO07	Number		10	risporioria Remover risporioria P		151288FL
7. Transporter 2 Comp	pany Name	В.	US EPA IC	Number		E TA	Number's	8.	7 468-656
•	EN SYSTEMS.		US EPA ID			G. Fa	ineporter's P Hilly's IL Number O	31,069	
	on (Including Proper Shipp	ing Name, Hazard Cla			12. Conta	<u> </u>	13. Total Quantity	14. Unit	Minds No.
9 NA3082 PAQUEOUS PA	US WASTE, LI G III (DO39) RTS WASHER S	(ERG#171)	S. . 3‡/GAL)		lor	ΔM.	BO 03	D G	DO39
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EMERGENCY	RESP 800-468 THORIZED TO	-1760(24 H	017766196 R). IF UN ENSED SUB	DELIV	ERABL	.E RI	ETURN	TO GE	NERATOR
 GENERATOR'S CE proper shipping nam 	RTIFICATION: I hereby dec ne and are classified, packed ble international and national	lare that the contents o	f this consignment a and are in all respe	are fully and	accurately	describ	ed above by		<i>D</i> :
and future threat to	titly generator, I certify that I cticable and that I have sele human health and the envir e management method that	onment; OR, if I am a s	mail quantity gener	olume and to storage, or o ator, I have	oxicity of w disposal cu made a go	raste ger mently a od faith	nerated to the vailable to meffort to minim	degree le which mi mize my wa	have determined to nimizes the present aste generation and Date
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Printed yped Nam	n		Signature	/ 6					Month Day Yea
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0. Facility Owner or 0	Operator: Certification of re	ceipt of hazardous m	aterials covered by	this manif	est except	as note	d in item 19		Date
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State Form I PC 62 8/81

HL532-0610

LEASE TYPE (Form designed for use on eite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 5-89) Form Approved, OMB No. 2050-0039 UNIFORM MAD 1. Generator's US EPA ID No. information in required by Fe WASTE MANIFEST 12210 af 3. Generator's Name and Mailing Address Location If Different **Norwood Marking Systems** 2638 Wisconsin Avenue Downers Grove Minols 4. "24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS" 630-458-1910 5. Transporter 1 Company Name US EPA ID Number H_D984785238 HazChem Environmental 7. Transporter 2 Company Name US EPA JD Number 8. 9. Designated Facility Name and Site Address 10. **US EPA ID Number** Polistian Control Industries of Indiana 4343 Kennedy Avenue IND000848943 East Chicago Indiana 46312 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 13. Total Type Quantity ₩t/Vo B. Non Regulated Material Not Hazardous By D.O.T. (Tumbling Mud) E b. R o đ. 7.45 1111 **斯斯特、斯勒斯特** 15. Special Handling Instructions and Additional Information 630-968-0646 Generator Phone Certificate of Destruction Required 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to the which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date Month Day Printed/Typed Name 1121211016 17. Transporter 1 Acknowledgement of Receipt of Materials TRANSPORTER Printed/Typed Name Signature Day. Year JOHNSON CHRIS 12/21/01 18. Transporter 2 Acknowledgement of Receipt of Materials Date Month Day Printed/Typed Name Signature 19. Discrepancy Indication Space FACI 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Date Month Day Year Printed/Typed Name Signature

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 LPC 82 8/81

II 532-0610

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

EPA Form 8700-22 (Rev. 6-89) Form Approved, OMB No. 2050-0039 (Form designed for use on eithe (12-pitch) typewriter.) Manifest Document No AM HAZARDOUS 1. Generator's US EPA ID No. Information in the shaded areas is not required by Federal law, but is required by illinois law. case STE MANIFEST Νá 70144 A'S Name and Mailing Address A. Illinois Manifest Document Number Location if Different FEE PAID IF APPLICABL 으 MISCONSIN AVENUE 9 B., Carrentor's II spill call AMERS GROVE ILLIMOIS 80415 **ID Number** 24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS (134) -4 554 (1541) Transporter's ID Number J. Transporter 1 Company Name US EPA ID Number 484475 6. ILEV984785236 HazCheni Erwironmantal 030-458-1910 Transporter's Phone Ħe 7. Transporter 2 Company Name US EPA ID Number 8 Transporter's 350461 **ID Number** HLD981002074 Illinois North Branch Environmental F. Transporter's Phone (9. Designated Facility Name and Site Address US EPA ID Number 680-629-0240 10 Policillon Control Industries of Indiana G. Facility's IL. ID Number Office 4343 Kennady Avenue ma i East Clacage Indiana 46312 H. Facility's Phone (HID000046943 219-397-3951 9 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 13. 14 Emergency Unit Total Waste No. Wt/Vo Type Quantity a. Hon Regulated Material EPA HW Number Nome E Not Regulated By D.O T N OIL) 090002 Response at 21///82-/860 and the EPA HAY Number b. Hon Regulated Material R Hot Regulated By C.O.I 000002 1 COOLANT) EPA HW Number 0 C. R **EPA HW Numbe** d. J. Additional Description for Materials Listed Above K. Handling Codes for Wastes Listed Above In Item #14 11ayFC1 162845 416 PCI 182046 110) 1101 National nesponse 15. Special Handling Instructions and Additional Information Centrificate or Destruction Required Generator Phone 630-968-0646 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date ō Printed/Typed Name Month Day 17 Transporter 1 Acknowledgement of Receipt of Materials Date Printed/Typed Mame Day Signature 18. Transporter 2 Acknowledgement of Receipt of Materials Date Printed/Typed Name Signature Month Day Year 19. Discrepancy Indication Space A 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Date Month Day Year Printed/Typed Name Signature

P.O. BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 State Form LPC 62 8/81 IL532-0610 FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

PLEASE TYPE (Form designed for use on elite (12 pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved, OMB No. 2050-0039 Manifest information in the shaded areas is not required by Federal law, but is required by 1. Generator's US EPA ID No. UNIFORM Me MANIFEST ILD984848564 3. Generator's Name and Mailing Address Location If Different A. Illinois Manifest Document Number Norwood Marking Systems, 2538 Wisconsin 508242 IF APPLICABLE Downers Grove, IL 60415 B. Illinois 630-916-1697 4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* 5. Transporter 1 Company Name US EPA ID Number C. Minois Transporter's ID HazChem Environmental Corporation ILR 000 001 388 D. 150916-1697 Transporter's Phone 7. Transporter 2 Company Name US EPA ID Number E. Illinois Transporter's ID 2558 North Branch Environmental ILD 981 002 074 F. 623529-0200 Transporter's Phone 9. Designated Facility Name and Site Address 10. US EPA ID Number Environmental Services of America-IN, Inc. 9181410004 604 South Scott Street H. Facility's Phone South Bend, IN 46601 IND 980 590 947 219+234-0441 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 13. Total 12. Containers Unit Wt/Vol Waste No. Туре Quantity G Non-Hazardous Non-DOT regulated materials E (oil) N E b. R 0 C d. J. Additional Description for Materials Listed Above K. Handling Codes for Wastes Listed Above In Item #14 15. Special Handling Instructions and Additional Information 11a)F1928-01: \\x55 WALLED HOW *Generator requests certificate of destruction 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, and disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Date Month Day Year Printed/Typed Name OUR 17. Transporter 1 Acknowledgement of Receipt of Materials Date TRANSPORTER Printed/Typed Name Month Day Year Signature 0111398 roka 18. Transporter 2 Acknowledgement of Receipt of Materials Month Day Yea Printed/Typed Name Signature 19. Discrepancy Indication ACILITY 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by his markitest except as noted in term 19. Date Printed/Typed Nam Month Day Ye Signature uant to litinois Révised Statute, 1989, Chapter 111 inst the owner or operator not to exceed \$25,000 per 1021, that this information be submitted to the Agency. Failure to provid ation of this information may result in a fine up to \$50,000 per day of violation. This Agency is authorized to require, put information may result in a civil penalty against the owner or operator not to exceed \$25,000 imprisonment up to 5 years. This form has been approved by the Forms Management Center

P.O. BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 State Form LPC 62 8/81 IL532-0610 FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

LEASE TÝPE (Form designed for use on elite (12 pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039, Expires 9-30-96 Manifest Document No. Information in the shaded areas is not required by Federal law, but is required by 1. Generator's US EPA ID No. UNIFORM HARM CHE) MANIFEST 17.00986848564 272 II 3. Generator's Name and Mailing Address Location If Different A. Illinois Manifest Document Number ₽ FFF PAID Lorwood Warking Systems, 2533 Wisconsin œ B. Illinois Downers Grove, IL 00415 Generator's 530-916-1697 4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* . ဋ US EPA ID Number 5. Transporter 1 Company Name C. Illinois Transporter's ID 40 ā Basthem Environmental Corp nin 000 001 358 Transporter's Phone D. 6321916-1697 7. Transporter 2 Company Name US EPA ID Number E. Illinois Transporter's ID ք558 SIOUR ILD 981 002 074 Forth Branch Environmensal F. 631529-0244) Transporter's Phone G. Illinois 9. Designated Facility Name and Site Address 10. US EPA ID Number CHICA Facility's 100104 invironmental Services of America-IN. Inc. 304 South Scote Schoot H. Facility's Phone ç IND 950 590 947 2(19+234-0441 South Eard, WM 46601 П 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers ₫ Total Unit Waste No. Туре Quantity Won-Masarlous Ton-DOT regulated materials E (oil) N E R . 7 O R J. Additional Description for Materials Listed Above K. Handling Codes for Wastes Listed Above In Item #14 15. Special Handling Instructions and Additional Information #18-19 *Generator requests certificate of destroction NLD 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, and disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Month Day Year Printed/Typed Name 05 1997 17. Transporter 1 Acknowledgement of Receipt of Materials Date Printed/Typed Name Month Day Year 05199 PORTER 18. Transporter 2 Acknowledgement of Receipt of Materials nted/Typed Name Month Day Year 19. Discrepancy Indication Space ACI 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Date Month Day Year 06039 to require, pursuant to Unnois

P.O. BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

PL	EASE TYPE (Form designed for use on elite (12 pitch) typewriter.) EPA Form 8700-22	(Rev. 6-89)	For	m Approved. Ok	1B No. 2	050-0039, Expires 9-30-96
1	UNIFORM HAZARDOUS 1. Generator's US EPA ID No. ILD984848564	Manifest Document No. 27/26	2. Page 1			shaded areas is not sw, but is required by
	3. Generator's Name and Mailing Address Norwood Marking Systems, 2538 Wisconsin Downers Grove, IL 60415		IL 7	anifest Docum 1271	20	mber FEE PAID IF APPLICABLE
	4. "24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS" 630-916-16	97	B. Illinois General ID	or's 043(305	021
	5. Transporter 1 Company Name 6. US EPA ID Nur HazChem Environmental Corp ILR 000 001 3			ransporter's ID		3209
	7. Transporter 2 Company Name 8. US EPA ID Nur			16-169/1 ransporter's ID		sporter's Phone 2558
	North Branch Environmental ILD 981 002 0					sporter's Phone
	9. Designated Facility Name and Site Address 10. US EPA ID Nur Environmental Services of America-IN, Inc.	mber	G. Illinois	410004	· · · ا	
	604 South Scott Street South Bend, IN 46601 IND 980 590 9	147	H. Facility's	Phone 234-044		
	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Contair	ners	13. Total	14. Unit	1.
Ġ	Non-Hazardous Non-DOT regulated materials	No.	Туре	Quantity	WWO!	Waste No.
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	ent and future threat to human health and the environment; OR, if I am a small quantity generate and select the best waste management method that is available to me and that I can afford.	or, I have made a	good faith	effort to minim	ize my	waste generation Date
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T	20. Facility 6 wner of Operator Cartification of receipt of hazardous materials covered by this manifest	nt except as note	item 19.			Date
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in	nis Agency is all'inotized t <u>v' require</u> , pursuant to/filinôis Revised/ 3fbate (; 1989, Chapter 111 1/2, Section 1004 and i formation may result in a civil penalty against the owner or operafor not to exceed \$25,000 per day of violation. Falsifica aprisonment up to 5 years. This form has been approved by the Forms Management Center.	1021, thất this info tion of this informat	rmetion be su lon may result	bmitted to the / In a fine up to \$	Igency. 50,000 p	Failure to provide this er day of violation and

INDIANA DEPARTMENT OF E	NVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZA	RDOUS WASTE MANAGEMENT
P.O. Box 7035	
Indianapolis, IN 46207-7035	

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11		Generator's Phone (208-969-9646				The of space		lata ≃i F * = i i		
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	16.	GENERATOR'S CERTIFICATION: I hereby declare that the	contents of this consigna	nent are fully	and ac	curately describe	d above	by pro	ner shi	Innina
		name and are classified, packed, marked, and labeled, an	d are in all respects in pr	oper condition	n for t	ransport by high	vay acco	rding	to appl	icable
		international and national governmental regulations.								
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		which minimizes the present and future threat to human he	ealth and the environment	; OR, If I am	a small	quantity generate	or. I have	made	a good	i faith
Ш		effort to minimize my waste generation and select to Printed/Typed Name	Signature	ient method	tnat i	s available to n	ie and	tnat i	Date	
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Ŕ	17.	Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature						Date	
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State Form LPC 62 8/81 II 532-0610 PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039, Expires 9-30-94 1. Generator's US EPA ID No. Manifest Information in the shaded areas is not required by Federal law, but is required by illinois law. **UNIFORM HAZARDOUS** 2. Page 1 WASTE MANIFEST ILD 984 848 564 0600 3. Generator's Name and Malling Address Location If Different Norwood Marking Systems attn Dennis Bourk 2538 Wisconsin Ave Downers Grove II 60515 4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* 708-916-1697 5. Transporter 1 Company Name US EPA ID Number HazChem Environmental Corp ILD 984 845 065 7. Transporter 2 Company Name US EPA ID Number Chemical Services ILD 980 701 106 9. Designated Facility Name and Site Address US EPA ID Number 10 Industrial Fuel and Resources 604 S Scott St South Bend In 46625 IND 980 590 947 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 13. 14. Unit Total No. Туре Quantity a. Non-Hazardous Waste Oil 2.£ 3.S. حصصااه 000 DM 909091 b.Non-Hazardous Waste Water 0004 DM 00000220 0 R 217 / 782-7860 and the National Response Center at d. the house the material of the property of the 15. Special Handling Instructions and Additional Information Generator Phone#708-968-0646 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Date Date Printed/Typed Name Month Day Year 17. Transporter 1 Acknowledgement of Receipt of Materials Date Printed/Typed Name Signature Month Day Year 424-8802 or 202 / 426-2675 BIOIS 18. Transporter 2 Acknowledgement of Receipt of Materials Date Day Signatur 19. Discrepancy Indication Space Date 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Month Day Rrinted/Typed Name Signature

91 00 MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Required under authority of Act 84, P.A. 1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

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Required under authority of Act 64 1979, as amended and Act 136, PA 1969 11/41 Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969. DIS. PR.□ Buch Bretter the Form Approved. OMB No. 2050-0039 Expires 9-30-91 WASTE MANIFEST 1. Generator's US Page 1 Information in the shaded areas is not required by Federal law. ** of Mailing Address State Manifest Document Number MI 2194785 Generator's Name and DOLUNE B. State Generator's ID t i t und i te Transporter 1 Company Name C. State Transporter's ID 339 98477594 MR. FRANK INC. D. Transporter's Phone /63-48 .- Transporter 2 Company Name E. State Transporter's ID F. Transporter's Phone সমুষ্টা G. State Facility's ID US EPA ID Number SISTYCASTE ST 798 Bacilly's Phone DETROIT HI USTIL 13. I. Waste 11. US DOT Description (including Proper Shipping Name, Hazard HM 14/45 [] ID NUMBER). Total -..No. ... N/H Туре Cluantity M2/V0 MMABLE LIGUID N.C.S. 199 WA TE FLATIPIEL L b FLOWINIADER & FORT UNITED (DOLL) 4 (195 Dr 7 B 1 C. C. K. Handling Codes for Wastes PRE QUAL # CULUTIES a/ ÷ Listed Above b/ GALLONS c/ SOLVEN 5. Special Handling Instructions and Additional Information 708 768 852-1399 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I,am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. HIGA DAY Month Day Printed/Typed Name Signatur Denois O(I|QL)17. Transporter 1 Acknowledgement of Receipt of Materials Date Day Printed/Typed Name Signature AN 18. Transporter 2 Acknowledgement or Receipt of Materials Date Printed/Typed Name Day Signature Month Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 18 Date Month Day Printed/Typed Name Signature

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